Joseph Clark

Colloquia Chirurgica:

OR. THE

ART of SURGERY

EPITOMIZ'D and made EASY, according to Modern Practice.

By Way of DIALOGUE.

WHEREIN

All Things necessary to be Known and Practis'd in the Cure of Tumors, Ulcers, Wounds, Fractures, and Diffocations, are concisely handled, practically and plainly apply'd; the Rules fo short, that the Whole may with Ease be remember'd; and the Method so certain, that it may be always fafely depended upon: Whereby every one may be able, in a very short Time, to give an Account of his Profession, without reading a Multitude of Books.

To which is added.

A COMPENDIUM OF ANATOMY.

Containing, in a very few Words, the Principal Matters relating to the Structure of Man's Bont, and which are most necessary first to be learnt by every Young Practitioner, for whose Benefit the Whole is made publick. The like (for Brevity and Method) not Extant; and which may be of universal Use, as a Pecket-Companion, both by Sea and Land.

The FIFTH EDITION, Revised and Corrected.

To which is added,

An APPENDIX, containing a Safe and Eafy Method to cure the Venereal Difeafe.

By JAMES HANDLEY, Surgeon, Formerly of the ROYAL NAVY.

Printed for C. HITCH, at the Red-Lion, in Pater-Nofter-Row, M.DCC.XLIII.









PREFACE.

FTER the general Reception this Book has met with, by the Four preceeding Editions of it, wherein several Thousands have been sold, I

presume it is wholly needless to make any Apology for this Fifth, and I must crave leave to repeat two Things, which I have formerly mention'd: The one is, that this Treatise is defigned principally for the Juniors in the Art; to instruct the young Beginner, not only what to do in most Cases that can occur, but also why it is done; that he may all upon rational Principles, and in Conversation distinguish bimself from a Pretender to the Art; and this Way of Dialogue I deem'd most proper,

to fix Things on the Memory, as well as more delightful to the young Artist: And the Second Thing I would repeat is this, I do not hereby make any Pretence to new Discoveries in Surgery, but to explain and establish the old, in a concise and pleasant Manner, that is both Profitable and Easy to comprehend; and which contains, the true Dostrine as well as Substance of what has been wrote on these Subjects in large Volumes formerly; the Purchase of which is both too large for the Pocket, and too burthensome to the Memory of the young Surgeon at his first setting out: He has here Multum in parvo, without carrying a Library in bis Head, or charging his Memory with su-perstuous Matters, and yet having the very Marrow and Substance of the best Authors that bave wrote, and which I conceive will bear the Test of the most severe Examination. I do not pretend to Infallibility, but if my Dostrine may be tried by the Rules of Art, contained in the best Authors that have wrote, I am in no fear of being found guilty of Error, how-ever some may blame me, (as I hear some have done) for Writing in this familiar plain Meshod; I do not advise the young Surgeon to depend on the Rules berein laid down, without reading other Authors, far be it from me so to do: no. I recommend diligent reading to every one, provided it be the best Authors, and to compare what they say, with what is here laid down, which will be a good Means to fix it in the

the Memory, and it will be easier upon any Occasion to turn to one of these short Chapters for Information, that he may always, have at Hand, than to have Recourse to larger Volumes, where a young Man too often bewilders his Understanding, instead of informing his Judgment, not being capable, on every sudden Occasion, to distinguish Truth from Error, in long Chapters with obscure Terms, and a Multitude of useless Words.

I must also inform my Reader, that the Medicines bere recommended in every Cafe, are only for a Specimen, but not for a Standard, as if these and none else, were to be used; no doubt but others of the same Intention, may be as Effectual, but it was necessary to recommend some, to illustrate the Dostrine in each Chapter; and I cannot but think that most of (even) our best Authors, have been too large and needless, in the Medicines and Applications that they have recommended in their Writings. It is not the great Variety, but the Propriety of our Applications that we are to regard; the Art confilts in knowing which to chaofe among great Variety, and how to vary and compound them, as Symptoms may indicate: As for Example, Very good Cures may be performed with only dry Lint, red Precipitate, and Basilicon; if the Artist knows bow, when, and why to apply, mix and vary them according to Art; and be that reads this Book with A 3

due Attention, may (I presume) be able to do that and much more. There is lately published, A. Treatife of Chirurgical Operations (and bas already passed Two Editions, and probably will undergo more, before this Fifth Edition of mine can appear) by Mr. Sharp, Surgeon of Guy's Hospital; I would recommend it to every young Surgeon, in which it is very demonstrable, that a Multitude of Medicines are not necessary in the most capital Operations, but the Cure may be performed by a very few, rightly adapted: And now as to this Treatife of mine, as it has met with such general Approbation in the three Kingdoms, I have not thought proper to make very many Additions to it, but let it take its Fate in its old Drefs. with some little Alteration in some Places, and as I cannot attend the Press, I must bespeak the Reader's Indulgence, where he may find any Literal, or other Mistakes, to correct them with his Pen. And I must again intreat all my Readers, not only to study Anatomy in general, but the Structure of a Human Skeleton in particular; that they may be able to understand the Dostrine of Frastures and Dislocations, and not be supplanted by those ignorant Monfters that abound in the Country, call'd Bonefetters, or Bone-coblers; Do not by your Indolence and want of Application, suffer those ignorant Intruders to run away with the Profit and Reputation, of such a useful and beneficial Branch of your Art; be diligent to detest their Ignorance, and to expose their Villany, and

and don't fuffer such Tinkers to patch up Bones, as their Brethren of the Brass-Tribe do Kettles, and who, like them, mend one Hole and make Two, and which would be more proper Work for these Vermin, than Tinkering of Bones, baving naturally Heads of Lead, and Faces of Brass. Surely it is very surprising, that fuch Fellows are not only tolerated but dignified! (several of them) with a Diocefan Licence, as if there were not Surgeons enough in the Kingdom, or as if Bone-fetting was none of their Bufiness, but rather belong'd to them that knew nothing at all of the Matter, and which is very surprising, the People love to have it fo; thus whilft the Spiritual Courts license them, and the People love to be cheated by them, no wonder that they proceed in their Imposture. If what is here advanced be attended to, the youngest Surgeon cannot be at a Loss what to do, in any Fracture or Diflocations, that can possibly bappen, nor indeed in almost any other Case: for altho' I do not pretend to new Difcoveries, I think I may say with great Truth, that for Brevity, Method, Plain-ness, and Comprehensiveness, it has no Superior; the Rules short, pleasant, and easy to be remembered, by those that know any thing of the Art, and it was never designed for Pretenders, and illiterate Intruders, Quacks nor Bone-setters.

Do your Duty diligently by the Seamen; be at all Calls by Night or Day without grumbling, and give them good Words, and that's the Way for them to love you; altho' they are an unpolite

ferment.

But.

Set of Mortals, yet they are Flesh and Blood, and know when they are well used; but this you may do, without making your selves their Companions, or drinking with them; for if you do that, you lose yourself at once, not only with these Men, but (which is worse) with your Superiors: No; if you would maintain a good Character, be diligent towards the Seamen, in all Cases of Wounds or Illness, give them good Words (which cost you nothing) but do not be too much their familiar, and never their Pot Companion.

Also behave with due Respect to all your Officers, and particularly to your Surgeon, and do not think by exposing his Failings, to add a Lustre to your own Reputation, for that is not the Road to Preferment; for his good Word to your Captain, is the Way to make him your Friend, and recommend you to a Flag for Preferment; and if you are but once warranted for a Ship, you have a Title to the Navy, and a certain Number have a Sallary when out of Sea Pay, and every one may hope to be of that Number in his Turn, besides baving the Benefit of Superannuation, if you serve the Time appointed for that Purpose, and have lived to a proper Age, and Infirmities render you uncapable of Service; this is a Happiness worth serving for

for, and very well worth your Attention and Patience.

It is your Misfortune, that your Physical Practice at Sea, is much cramp'd, being confin'd to the narrow Limits of the Contents of a Chest; but do you supply that Deficiency by Diligence, Study, and a strict Observation of the Success of what your Surgeon prescribes in every Case; apply your selves to the Study of Physick as well as Surgery; read Sydenham's Works, and get Dr. Lobb's Treatise of Painful Diseases, there is a great Variety in it, and it seems a rational pretty Piece, illustrated with many remarkable Cases and Cures, and to instruct you in the Knowledge of many very useful and uncommon Things, and particularly, the Conduct of Nature in Animal Secretion and Generation, and the Manner of the Operation of a Medicine on the Fluids; I would recommend to you my Mechanical Effays on the Animal Œconomy, a Book worth your Perusal, both for Instruction and Delight; as to others, there are Plenty enough to be had, and more than are good, but you must endeavour to shoofe those in most Esteem by Men of Sense and Judgment, who are capable to direct you in your Choice: And lastly, Let me press you to adhere strictly to Revolutional Principles, and take every Opportunity sincerely to shew your Attachment and Loyalty to your Sovereign, and every Branch of the Illustrious House of Hanover.

The PREFACE.

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Hanover, and delight not to be Foppish and Singular, but neat and clean in your Dress; and, Semper aliquid boni operis facito, ut diabolus te semper inveniat occupatum.

J. H.





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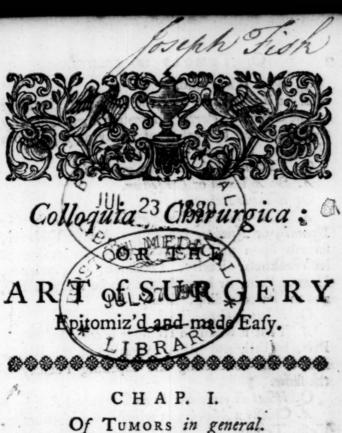
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HAT is Surgery?

A. Surgery, or Chirurgery, by its Etymology, The Xergos eppor, fignifies Manual Operation; and by the Learned in that Art, is defined to

be, The third Branch of the Curative Part of Medicine, which teacheth how fundry Diseases of the Body of Man are to be cured by Manual Operation.

Q. How ought a Surgeon to be qualified?

A. He ought to have a reasonable Experience in all Parts of his Art; to have a competent Stock of Learning; to have an unshaken Courage, a fleady Hand, a clear Sight, to be able to give a rational Account of what he does, and to be an boneft Man.

Q. What

Q. What is a Tumor?

A. It is a Disease, for the most part, incident to the Organical Parts, increasing their Quantity above Nature, by reason of receiving superfluous Humours, fent from other Parts.

Q. How are those Humours received?

A. By Affluxion or Congestion.

Q. What is Affluxion?

A. It is when an Humour offending, either in Quantity or Quality, suddenly and with Violence, feizeth upon any Member, either by reason of its Weakness, Rarity, Looseness, Dependency, Heat or Pain, or because the whole Body is full, and the Parts fending, strong.

Q. What is Gongestion?

A. That is when an Humour is collected in any Part, by little and little, by reason of the Weakness of the concocting and expelling Faculty of the fame.

Q. What do you mean by an Organical Part?

A. Chiefly a Muscie; in which are a Membrane, Flesh, Tendon, &c. Also a Nerve, which conveys the animal Spirits, and distributes them; and the Arteries, which do the same by the Blood.

Q. What are the Denominations of a Tumor?

A. In Greek it is called oyne; that is, a Protuberance in the Body: The Arabians and their Labarbarous Followers call all Tumors Apostemata; Kin Latin Abscessus. All Tumors, wherein is a Collection of Matter we call Apostems. The Word Tumor is a Latin Word, and is derived from the Word Tumeo, to be raised or puffed up.

Q. What are the Causes of Tumors?

A. Surgeons reckon up eight External Causes, (viz.) I: A contagious Air in time of the Plague. 2. Things exceeding Temperature in the active Qualities; as, Vesicatories, sitting long on a cold Stone, Stone, &c. 3. When too hard Ligature is made upon a Part. 4. The Application of Cupping-glasses. 5. A Wound, Fracture, Luxation and Contusion. 6. Biting of any Beast. 7. By taking Things inwardly offensive to Nature. 8. Immoderate Motion, whereby immoderate Heat is produced, and the Humours become more subtil.

Q. What are the Internal Causes?
A. Either Humours or Flatuosities.

Q. What are the Humours?

A. Either Natural or Unnatural, and they again either Sincere or Mingled.

Q. Which are those which you call Sincere?

A. Choler, Phlegm, and Melancholly.

A. Which do you call Mingled ?

A. When one of the former is mingled with the Blood; (for Blood is no where Sincere, but according to the Humour mingled with it, which is predominant) it is called Cholerick, Phlegmatick, Melancholly Blood.

Q. What are the Unnatural Humours ?

A. Water, as in the Dropfy, &c.

Q. What other Distinctions have you?

A. Simple and Compound.

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Q. What do you call a Simple Tumor?

A. If it proceed from Blood, (tho' it be never unmixed) it is called Phlegmone, or Inflammatio; if from Choler, Erisipelas and Herpes: All which are hot Tumors. Of Phlegm, is an Oedema; of a Melanchelly Juice, is a Schirrus: And these two are cold Tumors. If from Atra Bilis, Cancer; if from Water, it is called Tumor Aquofus; and particularly from hence come Hernia Aquofa, Hydrops, Hydrocephalus, &c. If from Flatuosity, it is called Emphysema: And these are caused by the desect of the natural Heat.

Q. What do you call Compound Tumors?

A. When there is a Combination of these, they beget a Compound Tumor, and what Humour most predominates, carries away the Name; as Phlegmonodes, Erispelatodes; and so of the rest.

CHAP. II.

Of the general Indications of Cure in Tumors.

Q. WHAT is an Indication?

A. It is that which sheweth what
Course is be taken for the Recovery of Health.

Q. From whence are the general Indications taken?

A. Either from the Matter, or Times of every

Tumor.

Q. As how?

A. In the Matter, we are to observe the Motion of it, and its Nature; as concerning its Motion, it is either in flowing, or is already received into the Part.

Q. What are the Caufes of Fluxion ?

A. Two; (viz.) Plethora, or Fulness; and Cacochymia, or an ill Habit. Plethora is of two forts, ad vasa, and ad vires.

Q. What do you understand by that?

A. Ad vasa, is when the Veins are only full, and the Body nevertheless quick and nimble: And that it is again (1) pure, when there is a due Proportion of the Humours of the Body; and (2) impure, when there is an Excess of any of the three Humours, besides Blood; as Phlegm, Choler, and Melancholly. Ad vires, is when there is such a Fulness as causeth a Lassitude of the whole Body.

Q. What must be done in this Cafe?

A. Pleihora, requires Phlebotomy; and Cacochymia, Purging; both which are to be done according to the Strength of the Patient.

Q. How do you discern Strength and Weakness?

A. By the Functions, thus: The Weakness of the Natural Faculty is discerned by Crudity of Urine, and Excrements of the Body; the Weakness of the Vital Faculty, by a weak Pulse, and by breathing weak and sick; and the Weakness of the Animal Faculty, is found out by Defect in Moving and Feeling.

Q. What are the Ends of Phlebotomy?

A. Derivation and Revulsion.

Q. What are they?

A. Derivation, is a drawing of the Humour to the Part adjacent, or of the same side, by opening a Vein, or a Branch of it, which is inserted into the Part affected. Revulsion, is a drawing of the Humour to the opposite Part, as from the Head to the Feet, from the right Side to the left, &c.

Q. What more will you do, to prevent, or abate

Fluxion?

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A. Since a hot Distemperature is most commonly the Cause, we must apply Things cooling; as Cloths moistened in Ol. Rosar. or Violar. laid on cold, and renew them as they grow hot; or apply Unguent. Rosat. de Cerussa, Populeon, &c. between two Cloths.

Q. Why between two Cloths?

A. It thereby keeps the Unquent from drying, and doth not hinder the perspirating of Vapours, which it otherwise would do, and thereby increase both Pain and Heat: The same we are to do also when we apply Cataplasms to this Purpose.

Q. But what if the Ways by which the Tumor passeth be too large, and a hot Distemperature joined,

bow will you proceed then?

A. Then

A. Then Things aftringent and cooling are to be applied, Rollers and Cloths being moistened in them: As, Bacc. Myrtil. Fol. Rof. Rub. Sicc. Cort. Granat. Balaust. Sumach. Cort. Querci, &c. Coq. in Vin. Rub. vel Aceto, & Aq. Font. And the Parts by which the Humours pals, are to be rolled pretty strait with Rollers dipped in the same.

Q. But suppose the Tumor be painful? A. Then I use Anodynes or Narcoticks.

Q. What are Anodynes?

A. They gently Contemperate the Part, by reafon of the Conformity which they have to the Nature of Man; are hot in the first Degree, and are of subtil Parts: As, Lac, ol. clivar. vet. axung. torcin. adeps humani, anseris, gallin. ursi, Ol. Cham. lilior. lumbricor. lini, amygd. dulc. ovor. ol. Rosar. pul. Croci, &c. Or make this Cataplasm; R. Fol. visc. pomorum cum fructibus, ana Mj. Fol. Hyosciami Mij. Fol. papaveris Mj. sub cineribus coquantur, addendo tandem Mic. panis in lacte tepido macerati, vitell. cvor. N° ij. pulv. Croci 3j. ol. Cham. & Rosar. ana q. s. f. siat Cataplasm. S. A.

Q. What are Narcoticks?

A. They deprive the Part of the Faculty of Feeling: And such are, Opium, Hemlock, Night-shade, &c. These are to be used when the former will not prevail. Sometimes (but seldom) they are used alone, and sometimes with Things hot, if we fear Stupesaction of the Part unto which they are to be applied.

Q. Suppose the Tumor proceeds from the Bite

or Sting of a venomous Beast?

A. (1.) Then the Part is to be immediately fcarrified, and Cupping-Glasses to be applied; and then the Part is to be fomented, cum Aceto & Ther. Ven. and a Cataplasm ex Ther. Ven. applied over all. The Member is to be bound hard two

or three Inches above the Bite or Sting; and Ther. Ven. cum Sal. viperar. to be given inwardly three times a Day: Or, R. Fol. Rutæ contus. 3vj. allii contus. Ther. Ven. vel Mithridat. & Rasuræ fovis, ana ziv. coq. super lento igne, in Cerevis. fortis. thiv. ad thiij. & Colat. &c.

Keep it in a Bottle close stopt; the Dose is 9 or 10 Spoonfuls, seven Mornings sasting, warm, as soon as possible after the Bite; and apply some of the Ingredients to it daily, warm. Vid. Pharm. Bat.

Q. What do you understand by the Times of a

Tumor?

A. I understand the Beginning, the Increase, the State, and the Declination.

Q. What do you call the Beginning of a Tumor?

A. The Beginning I take to be, when a Part

begins to tumify.

Q. What Medicines are then most proper?

A. Repelling Medicines, which are cold, and of a gross Subflance, to thicken the Part affected, and to cool the inner Parts of it: And such are, Alb. over. plantag. semper-viv. solan. petroselin. fol. Ros. rub. Bacc. Myrtill. Cort. granat. Galliæ, sang. Drac. Ter. sigillat. Acet. &c.

Q. Are you to use repelling Medicines in all Cases?

A. No: As, (1.) If the Matter be Venomous or Malignant, left being repell'd it affault fome principal Part. (2.) If the Matter be critically turned to a Part. (3.) If a Plethora abounds. (4.) When the Humour floweth to the Emunctories. (5.) If the Part have but little natural Heat, left it mortify. (6.) If the Pain be very great; for then only Anodynes are to be used.

Q. What do you call the Increase of a Tumor?

A. When the Part is stretched, and Symptoms

increased.

Q. What is Discussion?

A. It is an Evacuation of a thin Matter, (gathered in a Part) by infensible Perspiration, procured by the natural Heat, increased by proportionate Medicines, &c.

Q. What do discussive Medicines effect?

A. They help natural Heat; which being done, (1.) The Humour is made thin. (2.) It is resolved into Vapour. (3.) It is drawn from the Center to the Circumference. (4.) It is expell'd by the Pores of the Skin: Wherefore they must be familiar to Nature, and such as perform their Office by confuming superfluous Humidity, and must be hot and dry.

Q. How many Degrees of discussive Medicines

are there?

A. Three: viz. (1.) Those that are hot and dry in the second Degree : As, Fic. Chamb. Galb. Rad. Lilior. Melilot. Adeps anseris, Althea, &c. and because such ease Pain, we should ever begin with them. (2.) Those that are something more hot and dry : As, Calamint. Puleg. Hy fop. Menth. Sem. Cymin. Anethi, farin. fabar. & fænugrec. adeps Urs & Can. vet. &c. (3.) Those that are dry in the third Degree; as Nitre, unflaked Lime, Sulph. viv. &c. If the Tumor is hard, forbear Repellents, and use Discutients and Emollients : R Rad. & Fol. Althea, ana Mj. Sem. lini & fænugrec. ana zvi. pulv. flor. Cham. & Melilot. ana zij. far. Hord. & Tritici ana Zvj. fiat Cataplasm. addendo Mel. Com. 3ij. Ol. Sambuc. & Axung. anseris ana 3i.

Q. What do you call the State of a Tumor?

A. When it is come to fuch a Degree as it can grow no bigger.

Q. How do you know when that is?

A. All Symptoms are at their height, when neither increasing, nor decreasing,

Q. What will you do then?

A. Use Anodynes with Discutients, by reason of Pain.

Q. How will you know when the Tumor declines?

A. When the Symptoms begin to abate.

Q. What must be done then?

A. I must then use strong Discussives, as before spoken of; or, in case of Necessity, Diach. cum gum. Diach. Ireat. &c.

Q. How do Tumors end?

A. By Resolution, Maturation, Induration, and Corruption; and as Discussion is better than Suppuration, so Induration is better than the Corruption of the Part.



CHAP. III.

Of Curing Tumors, in general, come to Suppuration.

Q. CUppose you cannot discuss a Tumor, what

will you do then?

A. Bring it to Suppuration, or Maturation, vulgarly called Apostemation; and that is, when the impacted Blood, or Humour, is converted into laudable Matter.

Q. How is this done?

A. By outward Applications laid on warm, which working upon the superfluous Humidity, causeth Putresaction.

Q. But suppose it attended with Pain, would you

not use Narcoticks?

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A. No, for they extinguish the natural Heat of the Part, which is the principal Cause of Coesion; they also thicken the Matter, and make it more rebellious; but instead of them I use Anodynes, which we spoke to before.

Q. But

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Q. But what if Hardness possess the Part?

A. Then I use Emollients.

Q. What are they?

A. All Fats: Omn, spec. Malv. tussilag. sem Cydonior. lill. alb. sem. lini. sic. Uvar. pass. Medul. Omn. Ammoniacum, Bdellium, &c. of which Cataplasms may be framed.

Q. But if immoderate Heat trouble the Rart,

what must be done?

A. I must use Things cooling in the second Degree; as, Umbilic. Veneris, semper-viv. lil. aquatic. plantag. farin. Hord. &c.

Q. But when these Accidents are removed, what

then?

A. Then I proceed to affift Nature, by increasing Natural Heat, by suppurating Medicines which ought to be such as moderately stop the Pores, only suffering the sharp Vapours to breathe out, and to detain those which are mild and thick.

Q. What Suppurative Medicines do you use?

A. Of suppurative Medicines there are two ranks: Of the first, is Adeps humani, anseris, gallin. Butyr. Ol. olivar. fic. sem. lini & fænugrec. Malv. farin. tritici. rad. lill. alb. &c. Of the second fort are, Gum. Galban. Ammoniac. Elemi, pix Burgund. & Naval. Croci, Cæpe tost. ol. Cham. adeps Can. & Ursi, Empl. è Mucilaginibus, Diach. cum gumm. &c. of which Suppuratives may be framed at pleasure: Or (for Example) & Rad. Lilior. alb. Ziij. cæpar. cost. sub cineribus Zij. summit. altheæ Mij. fic. ping. tost. N° vj. coq. & contus. adde far. tritici Zij. pulv. sem. lini Zi. axung. porcin. Zij. ol. Lilior. q. s. cum vitel. ovor. N° ij. Croci Zs. fiat Cataplasm.

Q. How do you know when a Tumor is come to full

Maturation?

A. (1.) The Tumor by contracting it felf, feems less than it was in the State. (2.) It draws

itself to a Point. (3.) Hardness and Tension are much abated. (4.) By pressing with the Finger, we may feel the Matter sluctuate. (5.) The Patient feels much Ease. (6.) The Heat ceaseth. (7.) The instanced Part (especially at the Point) will become white. (8.) The Cuticula will be shrivell'd.

Q. Why should Contraction be a Sign of Suppuration?

A. Because whilst natural Heat concocts the Matter, Vapours are raised by the Heat, and so the Part is distended; but when the Matter is concocted, the Elevation of Vapours cease, and the Tumor a little falls.

Q. Why should drawing to a Point be a Sign?

A. Because when Nature overcomes the Matter, it draws it together to the Skin, and having conquer'd her Enemy, expels him.

Q. Why should the Abatement of Hardness and

Tention be a Sign?

A. Because Suppuration being procured, many Vapours are discussed, which before stretched the Skin, and made it hard.

Q. Why should the Patient's Eafe be a Sign?

A. Because the sharp Vapours are resolved, and the Matter being well concocted, makes the Parts more loose.

Q. How will you open an Apostem come to full Maturation?

A. Two ways. (1.) By Incision. (2.) By the Potential Cautery.

Q. Which do you esteem the best?

A. The Potential Cautery gives the most large and certain Discharge; but in Apostems of the Face, they are to be shunned, because of the Scars they leave behind them: but in other Places I use them, in large Tumors, or to gratify B timorous

timorous Patients, who will not admit of Incision.

Q. What is the Potential Cautery compos'd of?
A. Soap-Lees, and unflaked Lime, mixed to

the Confishence of an Unguent; or black Soap and unflaked Lime so mixed. Of a stronger sort, and which must be used with great Caution, are Lapis infernalis, (mixed one third, fourth or fisth Part with black Soap, and laid on) and the Silver Caustick, &c. But either of these being used in the form of an Unguent, must be spread upon a Pledget of Lint, and laid upon the most soft and depending Part of the Tumor, with a Plaister of Diapalma (or some such) all round it, to keep it from spreading; which it will do, less or more, tho' we do all we can to prevent it, therefore the Pledget must be made but small.

Q. How long is the Caustick to lie on?

A. I allow for the common milder fort twelve Hours; for the strong, not so much. If you apply the Silver Caustick, hold one end of it between your Fingers, covered with a Rag; and having just wet the other end, apply it to the Part, holding it on close, now and then wetting it asresh, and in a little time you will have an Eschar. By doing this on a particular Occasion to a sound Part, and managing it thus for three Hours, I have made an Eschar without Pain; which, when it has been divided, digested and separated, has lest a Cavity big enough to turn the end of one's Thumb in, and an Inch deep. I only hint this, to shew what may be done, with prudent Management.

Q. What are you to consider when you come to open

an Apostem?

A. I am to be careful to shun Veins, Arteries, Nerves, and Tendons; if the Skin is only to be divided, divided, the Incision is to be made strait; but a Muscle is to be cut according to its Fibres; and it must be opened in a depending Part; because of giving a free Discharge to the Matter, which would otherwise be kept in, and infinuate itself deeper. It must also be divided where the Part is thinnest, to avoid Pain; the Apertion must be proportionate to the Tumor, and the Discharge according to Reason; not too much at once, for fear of weakening the Patient too much.

Q. What Accidents follow the opening an Apostem?

A. Fainting, Pain, and a Flux of Blood.

Q. How are thefe to be remedied?

A. In case of Faintings, give Cordials or Wine; if Pain, imbrocate with Ol. Resar. &c. and as for the Flux of Blood, it is to be stopped with Bol. Sang. Drac. alb. over. acet. &c. mixed and applied on Tents and Pledgets, with good Boulsters and Bandage over all, &c. and so let it remain 24 Hours.

Q. How will you dress it after opening, if there is

no Flux of Blood?

A. If I find that the Potential Cautery has done its Bufiness, by making an Eschar, I take off the Caustick, wash out the Salts with warm Milk or Water, divide the Eschar, and dress it with warm Basilicon, or some other Digestive, till it salls off.

Q. What must be done then?

A. Dress it with Basilicon alone, or mixed with Merc. pracipit. Rub. or dipt in Spir. vin. and sometimes if there is much Putresaction, inject Spir. vin. per se, or mixed cum mel. Rosar. as I see occasion: and if it be very hollow round about, be sure to dilate it by Incision, or cut off the Lips, if they grow callous, &c. After it is well digested, IMundify, Incarn, and Cicatrize.

Q. How do you know when it is well digested?

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A. When

A. When the Matter is thick, white, fweet, even, and less than it was, and the Part looks clean.

Q. How will you Mundify, or Deterge?

A. Many Surgeons have many Methods; the most common way is with Ung. Apostolor. Ung. Bafilic. & præcipit. rub. or tereb. Ven. mel. Rosar. Sarcocol. Myrrh. Rad. Aristol. Rot. Mundificativ. Paracels. ex apio, &c.

Q. With what will you Incarn?

A. With Liniment. Arcæi, Gum Elemi, &c. and fometimes I use Digestives and Incarnatives together, as the Occasion requires.

Q. How do you know when it is fit to Incarn?

A. When the Part is very clean, and has little red granulated Spots appearing in it, and a small Discharge of Matter from it.

Q. When is the time to Cicatrize?

A. When the Ulcer is almost incarned even with the Cutis; not sooner, lest it should heal with a Cavity; nor later, lest a deformed Scar is produced.

Q. With what will you Cicatrize ?

A. With Unguent. Defice. Rub. Aq. Calcis, or dry Lint, prepar'd out of fine Cloth, dipt in a Diffolution of Vit. Rom. in Water, and dried, or Liniment. Arcæi, washed in Aq. Calcis, &c.

Q. What if a Fungus, Hyperfarcosis, or Spongy

proud Flesh arises?

A. I take it off with Merc. præcipit. Rub. Allum. uft. vit. rom. and fometimes by the Knife, &c. and in fome rebellious Cases, by the actual Cautery.





CHAP. IV.

Of a Phlegmon, sherving the general Method of its Cure.

HAT is a Phlegmon?

A. It is a hot Tumor, proceeding from the Affluxion of Blood to any Part.

Q. From whence is the Name derived ?

A. Φλεγμονη is derived from φλέγω, from whence flagro, to burn, by reason of its heat.

Q. What is the true Cause of a Phlegmon?

A. It is caused by good Blood offending in quantity.

Q. What are the true Signs of it?

A. It suddenly begins, and speedily increasether it is very hot, of a fresh Colour, is attended with great Pain, Pulsation, Tension, and the Viens are often very apparent, black, or ruddy.

Q. What are its Differences ?

A. If it seize upon the Meninges of the Brain, it is called Phrenitis; if on the Conjunctiva of the Eye, Ophthalmia; if on the Muscles of the Throat, Angina, or Quinzy; if on the Pleura, Pluritis, or Pleurisy; if on the Lungs, Peripneumonia; if on the Emunctory of the Heart and Liver, Bubo; if under the Ear, Parotis: otherwise it carries the general Name of Phlegmon.

Q. What are (in short) the Means of a Cure?

A. They are two: (viz.) A fit Diet, and proper Applications. In the beginning I order a thin and cooling Diet, and only what is sufficient to support Nature; as, Chicken or Veal-brotis, Water-

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gruel, cooling Salads, Barley-broth, Spinage, Sorrel, Purslain, &c. His Drink, Small-Beer, Barley-water made palatable with Syr. Violar. or Syr. Sacchari, and such like: He must forbear Wine, Eggs, Flesh, Spices, Stale-Beer and Ale, &c.

Q. Suppose the Humour flows immoderately, how

will you abate it?

A. By Phlebotomy and Purgation.

Q. What are you to consider in Phlebotomy?

A. The Season of the Year, and Age and

Strength of the Patient.

Q. Why is Purgation of use here, since no Blood (which is the Matter of a Phlegmon) can be spent

that way?

A. Catharticks or Purgatives, dry the Body and deprive the Blood of Moisture, and make it more unapt to flow; and by purging out sharp Humours, which irritate the Part affected, the Enemy is conquered with more Ease.

Q. What Catharticks do you use in this Case?

A. Lenitives, as Cassia, Tamarind. Elect. Lenitiv. &c.

Q. What else is to be done?

A. Discussives, (of which I gave an Account before) Desensatives and Repellers.

Q. What do you call Defensatives ?

A. These are such as by their astringent Nature, purse in, and contract the Vessels, thereby hindering the Humour from flowing to the Part, and are in Nature cold and dry.

Q. Where must they be applied?

A. To the Parts contiguous, to the Joints and Parts above them.

Q. Why fo?

A. Because there the Vessels are more plain and conspicuous, and so apt to receive Impression from the Medicine.

Q. What

Q. What are your defensive Medicaments?

A. The more mild are, Succ. Plantag. Rof. Alb. Nigell. Papav. Rhead. Aq. Sperm. Ranar. Vin. Rub. Acet. Oxileum, &c. Cloths being dipped in them, and applied, and often renewed; or the common Defensative of Diapalma and Bole, spread upon Cloth or Leather.

Q. What is Oxileum?

A. Acetum & Ol. Olivar. commixt. The more strong Defensives are, Bol. ver. Sang. Draconis, Ter. sigillat. Ol. Myrtillor. Mastic. Albumin. Ovor. &c.

Q. What are Repellers?

A. Such Medicines as drive back the Humour from the Part.

Q. What arkthey?

A. Some are mild, being cold and moist, as Lactuc. Cichoreum, Portulac. Alb. Ovor. Nigel. &c. And some are more strongly cooling, as Cicut. Mandragor. &c. Again, some are more aftringent, cooling and drying, and repel more strongly than the others. Of these some are weak, as, Fol. Plantag. Fol. Ros. Rub. &c. And others are more strong, as, Bol. Cort. Granat. Vin. Rub. Allum. Galliæ, &c. All which may be made into Cataplasms, with Far. Hord. &c. Or thus, &c. Far. Hord. 3vj. Pulv. Com. Granat. 3ij. Pulv. Balaust. 3ss. Succ. Sedi Major. 3iij. Vin. Rub. q. s. Coq. ad consist. Cataplasm. & in fine Coctionis adde Ol. Myrt. 3ij.

Q. When are these to be applied?

A. In the beginning of the Tumor, and so long as I see any good Effect from them.

Q. What Mischief comes of their untimely Appli-

cation.

A. They wrinkle the Skin, increase the Pain, harden the Humour in the Part, and often return it to some Noble and Principal Part.

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Q. How

Q. How do you know when Repellers are to be applied?

A. They are to be applied if the Patient comes whilft the Blood is yet in the small Veins; because then the Humour is but little and thin; Nature is strong, and the Matter is not yet settled: And as I see Occasion, I sometimes apply Repellers and Discussives together.

Q. In what Cases are repelling Medicines not to

te ufed?

A. (1.) If the Part be weak, left its natural Heat be extinguished. (2.) When there is great Pain; because they would cause greater. (3.) When the Fluxion is violent; for then they would be fruitless.

Q. Tell me (in short) how you will manage it,

from first to last?

A. In the Increase of a Phlegmon, I use repelling Medicines, and sometimes with discussing; because until the latter end of the Increase, there is hopes that the Matter may be repell'd; but when the Blood is once slipt out of the Veins, and the Phlegmon begins to abate, I immediately sly to Discussives, which make the Blood thin and apt to slow, convert it into Vapours, and evacuate it by the Pores of the Skin: And if, notwithstanding all this, there be Tension or Swelling, then I endeavour to procure Suppuration.

Q. How is Matter produced?

A. By a natural and unnatural Heat encountering together.

Q. Why is it termed Good, if it be White?

A. Because that shews it to be produced of natural Heat, and is caused to be white by the Coats of the Veins, Arteries, Nerves and Membranes, which are in Colour white, and turns the Matter into the same Colour.

CHAP.



CHAP. V.

Of an ERYSIPELAS.

Q. WHAT is an Eryfipelas?

A. It is a hot Tumor, proceeding from Choler, of a bright red Colour, tending to yellow, without Pulsation or circumscribed Tumor.

Q. Is Choler always yellow?

A. For the most part, and in a healthful State it is; but in a Morbose State it is often of several other Colours, as pale, black, eruginous, reddish, vitelline, &c.

Q. Why do you call this Tumor igvointag?

A. From ievoor (which the Ancients used to fignify Red) and πίλας, fignifying near. So that it is a Tumor in Colour coming near to Red.

Q. What are the Signs of it?

A. Great Pain and Heat; the Colour of it of a bright red, tending to yellow; it is small, poffessing only the Skin, and is attended with a Fever.

Q. What is the Difference between a Phlegmon

and an Erysipelas?

A. A Phlegmon possesset the Skin and Flesh under it; an Erysipelas only the Skin; a Phlegmon is of a dark red Colour, by reason of thick Blood lying deep; but an Erysipelas is of a bright red, tending to yellow; a Phlegmon settleth it self in one Part, but an Erysipelas makes red the adjacent Parts by spreading; a Phlegmon comes of Blood, an Erysipelas of Choler, in which the Heat and symptomatick Fever is greater than in a Phlegmon also.

Q. What Prognosticks are you able to make?

A. That which proceeds from natural yellow Choler is mildest; if it be driven to the outward Parts, it is a good Sign; so it is bad (on the contrary) if it return from the outward Parts inward: it is more dangerous in the Head than in other Parts: If it appear in Wounds, Fractures, Ulcers, &c. it is very often mortal, if it does not proceed from Application of too hot Medicines. If it tends to Suppuration, or if a Bone be bare, and the adjacent fleshy Parts be possess with it, it is an ill Sign.

Q. How is a Patient to be relieved that labours un-

der it ?

A. By Diet, Surgery, internal Medicines, and external Applications.

Q. How is he to be dieted?

A. It must be cooling and moistening; Chicken-Broths with cooling Herbs, Oatmeal-Gruel, Panada, Spinage, Sorrel, Lettice, &c. His Drink, Aq. Hordei, Spring-Water, or Small-Beer. The Season of the Year must be consider'd, Sleep procur'd, and all Disturbances of Mind shunn'd, &c.

Q. Is Phlebotomy to be used ?

A. It is disputable: Yet in an Erysipelas Phlegmonodes, wherein Blood increaseth the Heat, in
what Part of the Body soever it be, a Vein is to
be breathed without doubt; as also if it invade the
Head, Neck, or Face, lest a Phrenitis or Angina
follow: But in all other Places they tell us, not;
because by Phlebotomy the Blood which remains,
moves more quick, and becomes more subtil, that
which is the Qualifier of Choler is taken away,
and the Patient weakened.

Q. What are your internal Medicines in an Eryfi-

pelas ?

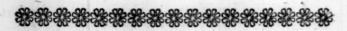
A. I give Lenitives, as Cassia, Elect. Lenitive. Diacatholic. Elect. è succe Rosar. Tamarind. Crem. Tart. Manna, &c. And if the Inflammation be mild, Glisters made of the Decoction of cooling Herbs, with the aforesaid Electuaries, may serve.

Q. What are your external Applications?

A. In these I must be cautious, not to apply astringent Medicines, which are cooling and drying, because the Vapours in this Tumor are sharp; and if they should be pent in, they might erode and corrupt the Part: The Medicines then must be cold and moift, but not Narcotick, unless the Pain be extreme, and the Grief far from any principal Part, and unctuous Medicines stop the Pores: But I use Cloths dipt in Aq. vel Succ. Umbell. Veneris, Equiset. Plantag. Lactuc. Petroselin. Papav. &c. mixed with Acetum. Also, Cerat. Refrig. Galeni, Sapo Castil. dissolv. in Aq. Fontan. Aq. Sperm. Ranar. cum Aceto ex Vin. Rub. wherein fome Myrrh has been dissolved. Also foment the Part with Decoct. Salviæ cum sapone Castil. (which I have often used with great Success) and bathe it with S. V. Camphorat. And here all Medicines must be often changed, and cut the Vefications as oft as they rife.

Q. How long are these to be applied?

A. Till the Heat be abated, and the Skin recovers its Colour; for by using cooling Medicines too long, Lividness of the Skin, and sometimes a Mortification is procured. If it be in the Head or Face, be very cautious in your Applications, and let them be rather Exsiccant than Repellent, till the Humour has spent it self; Abstinence and a cooling Regimen being here the best Method. And some use no local Applications at all, but leave it to Nature; but I cannot approve of such a Conduct, especially where the Part is raw, &c.



CHAP. VI. Of an OEDEMA.

Q. WHAT is an Oedema?

A. It is a foft, loose, white, cold Tumor; caused of Phlegm; which, if press'd with the Finger, pits; and is commonly without Pain.

Q. What is Phlegm?

A. It is the fourth Part of the Mass of Blood, cold and moist, and is either natural or excrementitious. The natural is void of any foreign Taste, and ought rather to be called pituitous Blood, than Phlegm. Of the excrementitious or unnatural, there are three Sorts; (1.) Sour. (2.) Salt. (3.) That which shews like melted Glass; and is therefore called Pituita, Vitrea, &c.

Q. What is the Signification of the Word

Oedema?

A. The Greeks call it, ofdnua, the Latins Oedema, and (to speak in a general way) is the fame with byxe, which signifies bunching out; and so every Tumor may be called an Oedema: but in a more strict Sense, and according to modern Writers, it is taken for this particular Tumor caused of Phlegm.

Q. What Prognosticks can you make relating to it?

A. It is commonly a continuing Disease, because the natural Heat in the Part it affects, is weak; but it is not of itself dangerous, because it is mostly without Pain; but in consumptive and dropsical Habits, it is of ill Consequence; not as it is a Disease, but as it shews the Decay of the natural Heat.

Q. How

Q. How will you perform its Cure?

A. It is performed by Diet, internal Meditines, and local Applications.

Q. What Diet would you advise your Patient to?

A. Always to that which is drying, and to that which is roasted rather than boiled; Fish, Hogs-slesh, Heads, Brains, Feet of Beasts, and Sallads of cold Herbs, are all hurtful; but eat Biscuit, or Bread well baked, with Veal, Pullet, Rabbit, Chicken, &c. and daily drink Wine in Moderation, and a Decoction, or Ale of Guaiacum, China, Sassafras, Sarsa, Ginger, Cinnamon, &c. and sweat upon it. Be sparing in Diet, but labour, study and watch, because these dry the Body. If it possess the Hands, Walking is good; but if the Feet, then sit much, and work with the Hands.

Q. What do you prescribe internally?

A. Antimonial Medecines are good, and to be used as Occasion offers; also purge with Pil. Cochiæ, de Hiera cum Agarico, Pulv. Diaturbith.cum Rhabarb. Diasenæ, Cornachin. Pil. ex Duobus, Elect. Cariocostin. &c. with Calomel, which is a safe Method, carefully used.

Q. What think you of Phlebotomy in this Disease?

A. In a true Oedema I do not like it; because,
(1.) In Bodies cold and moist, as are those which are Oedematous, we never do it, except there be a Plethora too. (2.) The Matter is not malignant;

for which Reasons I forbear it.

Q. What are your local Applications?

A. The Part is to be rubbed well with a Cloth, to open the Pores for the Medicines to penetrate: Then use Bay-Salt cum Ol. Olivar. or Brandy, or Bay-Salt with Spanish Wine, or the Patient's Urine. But in the State of the Tumor, when it is large, use this Fomentation, or such like, R. Fol. Absinth. Abrotan. Calaminth. Origani, Pulegii, Sambuci,

Sambuci, Chamæmel. Salviæ, Rutæ, ana Mj. Bace. Lauri & Juniperi ana 3j. Sem. Fænic. dulcis, Carui, Cymini, ana 36s. contundantur craff. modo. & in Aq. Font. q. f. bulliant ad dimid. partis consumptionem, Colatura, & adde S. V. q. f. & fiat Fotus. And then use good Bandage, either by Rolling, laced Stocking, Sleeve, Truss, or Glove. After fomenting, you may embrocate with Ol. Laurin. Ruta, de Castoreo, ana 3ij. Sal. Marini 3ij. Ms. And apply this Cataplasm; R Farinæ Fabar. Hordei ana 3vj. Summit. Absinth. Ruta, Origani, Abrotani pulv. ana 31s. Flor. Sambuc. Chamæmeli, Rof. Rub. pulv. ana Ziij. coquantur in prædict. fotu ad Cataplasmatis consistentiam addendo sub finem Aluminis & Sulph. vivi ana 3j. Ol. Rutæ & Mellis q. f. Or if you would rather use a Plaister, Empl. de Sapone and Diasulphuris, are proper Discutients here. With which Fotus the Part may be fomented, or large double Cloths wet in it, and apply'd over the whole Member; and with a fit double-headed Roller, make good Bandage: or if in the Knee, or Leg, fit on a laced Knee-Piece, or Stocking, by which the Humour will be fent from the Part affected, to those adjacent, and so the more readily carried off by Internals.

Q. What Parts of the Body does this Tumor ge-

nerally posses.

A. The Hands and Legs, because they are the farthest from the Heart, which is the Well-spring of Life, and also because they are framed of cold Parts.

Q. What Tumors are referred to an Oedema?

A. Six: viz. Three which are contained in a Cystis, and three which are without; that is to fay, (1.) Atheroma. (2.) Steatoma. And (3.) Meliceris. These three are contained in a Cystis; and the other three, which are not so contained, are

are these, (1.) Psydracium, (2.) Ficus, and (3.)

Q. How will you know an Atheroma?

A. It has a Substance like Curds or Rice Milk; it proceeds from thick and gross Phlegm.

Q. How will you know a Steatoma?

A. It is not so big as Atheroma, and contains a Matter like unto Grease, or a Sweatbread-like Sub-stance.

Q. How will you discern a Meliceris?

A. It contains a Matter resembling Honey, and is bred of thin Phlegm mingled with some Choler.

Q. How do you diffinguish a Psydracium?

A. It is a pointed white Pustle, containing a waterish Humour.

Q. What is a Ficus?

A. It is called Ficus, because its Roots resemble that of a Fig; and its inner Substance is like that of a Fig also.

Q. What is a Talpa?

A. It is so called, because as Moles heave up the Ground, so this Tumor lists the Skin from the Pericranium, and is larger than a Ficus.

Q. Is no other Tumor to be added to thefe ?

A. Modern Authors add one they call Nata, which is large, and is so called because it resembles the Buttocks, called Nates; is without Pain, consists of pituitous Flesh, seated most commonly in the Neck, and is only cured by Excision.

Q. What is Ganglium, and Lupia, Tumors fo

called?

A. They are round Tumors of the nervous Parts without Pain, only Ganglium is hard, Lupia foft. Lupia may be moved every way, but Ganglium only towards the Sides, &c.

CHAP. VII.

Of a SCIRRHUS.

Q. WHAT is a Scirrhus Tumor?

A. It is a Tumor caused of Melancholy, or tough cold Phlegm, hard, fixt, and without Pain: If it wholly comes of Melancholy, it is of a Lead Colour; but if of Phlegm, it does not change the Colour of the Skin.

Q. What is Melancholy ?

A. The fourth Humour in the Mass of Blood; yet natural, cold and dry.

Q. Why is this Tumor hard?

A. Hardness is the Offspring of Cold, Dryness, too great Repletion, or a Combination of all these together.

Q. Why is it without Pain?

A. (1.) Because the animal Spirits cannot pass through an Humour so glutinous, as that which causeth a Scirrhus: Or, (2.) because it is benumbed with the Coldness of the Humour.

Q. Wherein does it differ from other Tumors?

A. Herein it differs: A Phlegmon is attended with Pain; an Erysipelas is not hard; an Oedema yields to the Touch, and pits. Waterish Tumors have a thin clear Matter: And from a Cancer particularly, it differs in these Respects; a Cancer is ever painful, this not at all; a Cancer is hot, this cold; a Cancer seizes the loose and flaggy Parts, this the hard ones, as Joints, Tendons, and Ligaments; in a Cancer the Veins appear sull and black, here not so.

Q. What are the Prognosticks in a Scirrhus?

A. An exquifite Scirrhus is incurable; and one less exquisite, though it is feldom mortal, hardly admits any Cure, or with much Difficulty: A Scirrhus from Melancholy only, is warily to be managed, for fear it should degenerate into a Cancer; but with that which is caused of Phlegm, you may be more bold.

Q. Why is an exquisite Scirrhus incurable?

A. Because the Part is deprived of the Influence of the animal Spirits, and the Faculty it self is so strangled, that it cannot help the natural Heat to concur with Means which may be used, &c.

Q. What are the Indications of Cure?

A. Diet, internal Medicines, and local Applications.

Q. Is Phlebotomy profitable in a Scirrhus?

A. If the Veins be full, the Blood black, and Age and Strength permit, it is by all means to be performed, because the Quantity being lessened, the natural Heat will with more ease rule the rest.

Q. What is the Dietetick Cure?

A. All their Meat must be of an easy Digestion, moist, and of a thin Juice, as Chickens, Pullets, Lamb, Veal, Rabbits, Sallads, Spinage, &c. Their Drink, small Wine, Cyder, or reasonable strong Beer. All salt Meats dried in the Smoak, Venison, coarse Bread, &c. are hurtful.

Q. What are your internal Medicines?

A. Such as purge Melancholy and Phlegm; as Confectio Hamech. Pil. de Lap. Lazuli, Extr. Helleb. Nigr. given in Decoctions of Sena, Polypody, &c. these for Melancholy; and to purge Phlegm, give Pil. de Agaric. & Hermodact. Diaturbith. &c. But it is thought, that nothing is better than constantly taking a Diet-Drink of Sarsaparilla, China, Guaiacum,

Guaiacum, &c. instead of common Drink, and sweat every Morning well upon it.

Q. What are your external Applications?

A. Not repelling; because the Humour is thick and hard, and so unsit for Motion: but they ought to be discussing and emollient; and not Emollients alone, for thereby a Scirrbus is exasperated, and so will be apt to turn cancerous; Unguent. Dialtheæ, Ol. Lilior. Adeps Human. Anseris, Empl. Diach. cum Gum. è mucilaginibus, Gum. Bdellii, Ammoniaci, Galbani, &c. And before you apply any of these, foment the Part with Decost. Malv. Flor. Cham. Melilot. Sambuci, Sem. Lini, Fænugrec. Rad. Altheæ, &c. cum aceto, & adde Sp. Vini q. s. And in dry Bodies, and where the Scirrbus is more confirmed, and fixed amongst the Tendons, the Fume of Vinegar, sprinkled upon a hot Stone, often repeated, has its use herein.

Q. Having briefly received Satisfaction, as to a Phlegmon, Erytipelas, Oedema, and Scirrhus, which take their Original of the four Humours in the Mass of Blood, (viz.) Blood, Choler, Phlegm, and Melancholy: Now give me your Thoughts of Aqueous

Tumors?





CHAP. VIII. Of Aqueous Tumors.

A. A QUEOUS Tumors are produced of the Superfluity of the Serum of the Blood, after it has performed its Office; which moving the expulsive Faculty, part of it is sent to the Skin, which causes these Tumors.

Q. What is this Serum?

A. It is a Salt Aqueous Humidity contained in the Blood; which cannot be different, till the Blood, growing cold, this thin part is separated from the thicker by Concretion.

Q. What Quantity of this Serum is there in the

Blood ?

A. In a healthful Person the Quantity is but small, and no more than is fit to make thin the Blood, that it may with more ease pass to all Parts of the Body to afford them Nourishment; and this Serum has the same Matter with Urine and Sweat.

Q. What is Urine?

A. It is nothing more or less than the Super-fluity of this Serum mixed with the Aqueous Humidity of Meat and Drink, separated from the Sanguineous Mass by the attractive Faculty of the emulgent Veins and Kidneys, and by the Ureters sent to the Bladder.

Q. How is the Superfluity of Serum fent to the

Habit of the Body ?

A. Partly because the Weakness of the Kidneys will not suffer them sufficiently to draw it; partly because the Liver is too cold; and partly from Immoderation in drinking of Water, Wine, Ale, Cyder, &c. See my mechanical Esfays on the animal Oeconomy, &c.

Q. What are the Signs of an Aqueous Tumor?

A. It is sometimes less, sometimes bigger; yields when it is hard preffed, is not painful, does not pit, and it attended with an itching in the Part, by reason of the Saltness contained in the Humour. If they lie externally, they appear resplendent; and if they be deeper, and are shaded by the Hand and a Candle in a dark Room, a faint Transparency may be perceived: Those that are contained in a Cyftis, if the Tumor be large, an Undulation may be perceived, if they are shook, &c.

Q. How will you perform the Curative Part? A. By convenient Diet, internal Medicines, external Applications, and manual Operation.

Q. What is your Dietetick Method?

A. Eat Roast-Meat rather than boil'd; shun all Immoderation in Drink; Flesh is better than Fish; and that is best to be of Kid, Veal, Rab. bits, Land-Fowl, Biskets, and Bread well-baked, &c. shunning all Spoon-Meat whatsoever.

Q. What internal Medicines do you ufe?

A. They are of three forts, (viz.) fuch as purge by Stool, by Urine, or by Sweat and in-Sensible Perspiration.

Q. What are your Catharticks, or fuch as purge

by Staol?

A. Elaterium, Gutta Gamba, Pil. de Euphorbio, Cochia, Rad. Falap. Mechoachan. Syr. è Spin. Cerv. Rad. Efula Maj. &c.

Q. What are your Diuretical Means, or fuch as

provoke Urine?

A. Syr. Alther, è quinque Radicibus, &c. Sal Prunel. Rhenish Wine strained through Broom- Ashes, Sal Genista, Spir. Juniperi, Spir. Nitr. Dulc. &c.

Q. What are your Sudorific or sweating Medicines?

A. Decoet. Guaiaci, Sarsaparil. Sassafr. Agrimon. Beton. Sem. Fæniculi, Coriandr. Anis, &c. Give it often, as the Patient can bear Sweating; and give it warm.

Q. What are your external Applications?

A. They ought to be fuch as discuss and rarify the Skin, that a Breathing may be given to the impacted Humour; as Fol. Malv. Farin. Lupinor. Ol. Anethi, Cham. Vin. Alb. q f. Of which make Cataplasms. Also Mustard, and Nettle-seeds, Brine, Ammoniacum, Bdellium, Ol. Olivar. Vet. Ceræ, &c. Of which, according to Judgment, make Cerats. But, before the Application of this or any other Medicines, the Part is to be well fomented with a strong Lixivium made of Broom-Ashes, Absinth. Centaur. Calamint. Bacc. Lauri, Sem. Cymini, Fol. Scordii, Flor. Cham. Melilot, &c. and then embrocate the Part with this, R Sal. Nitri 3x. Piperis Alb. 3vj. Euphorb. 3ij. Ol. Laurin. 3vj. misce. And if after all, the Cure fucceeds not, an Apertion must be made, to discharge the Water: But in an Ascites, which is commonly the Product of some Chronical Distemper, which took its original from Obstructions of the Viscera, Tapping sometimes has, but often has no good Effect: And (if the Viscera are corrupted) it commonly hastens the Patient's Death; especially if too much Water is let out at once.

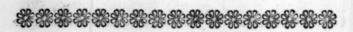
Q. What are the Differences of Aqueous Tumors?

A. Those in the Head are called Hydrocephalus;
if in the Belly, Ascites; and if in the Cod, or
Scrotum, Hydrocele, or Hernia Aquosa.

Q. How do you perform the manual Operation?

A. It is done either by Incision or Caustick, which must be in a depending Part, and must be kept open by a Pipe of Lead or Silver; and lastly, cured as other Tumors, according to the Artist's Judgment.

CHAP.



CHAP. IX. Of the KING'S EVIL.

THAT is a Scrophulous Tumor? A. It is an hard Tumor of the Glands, inclosed in a Cystis of its own, bred of thick Phlegm.

Q. How is it called ?

A. In Latin, Scrophula, and Struma; in English, The King's Evil.

Q. Why is it call'd, The King's Evil?

A. Because the Cure of it has been reported by People of a strong Faith, to be a particular Gift of God to the Kings and Queens of England, that are lineally descended from the Blood Royal, who cure it by their Touch; tho' where that cannot be had, it comes under Chirurgical Considerations, which is undoubtedly the most certain way of Cure. For as to the Royal Touch, it feems to me to be much of the nature of that of a Seventh Son, and both depend meerly upon Faith, or Fancy; and that's the Reason (I presume) that Children and Folks of a small Faith, often miss'd of a Cure in former Days.

Q. What are its Differences?

A. Sometimes it is lodged in many Knots, fometimes in few; fometimes large, fometimes small; fometimes mild, fometimes malignant; one is moveable, another not; some have Veins, Arteries and Nerves, others none, &c.

Q. How do you distinguish it ?

A. I diffinguish it from a Gland, because that is foft, and without Pain; is fingle, and flips when prefied, and returns again, and is generally

cutaneous :

entaneous: But the Evil (on the contrary) if touched, feels hard and is painful, and generally confifts of many Knots, and lies deep. It is known from a Ganglium, for that is only in a nervous Part. Nodes are separable from the subjacent Parts, and breed in any; but the Evil sticks fast to the Flesh, and is generally in a glandulous Part.

Q. What are the Prognosticks?

A. (1.) Every Scrophula is difficult of Cure, because it is hard, it is contained in a Cystis of its own, and comes from agross Humour. (2.) The painful is more difficult than that without Pain. (3.) The fixed worse than the moveable. (4.) It is more difficult in the forepart of the Neck than any where else. (5.) It sometimes turns Scirrhous or Cancerous. (6.) It generally seizes Children, but seldom on grown Youths or Men; wherefore when it does so, it is the more difficult of Cure. See Mr. Wiseman's Surgery, who has treated largely and learnedly about it.

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CHAP. X.

Of ULCERS in General.

Q. W HAT is an Ulcer?

A. It is a Solution of Unity with loss of Substance in any Part, either proceeding from an inward Cause eroding the Part, or from some external Force making a Wound, &c. which in process of Time degenerates into an Ulcer.

Q. How is it called?

A. In Latin Ulcus, in Greek λας, ἀποτε καισθαι, because it disjoineth the Part it possesseth : and

fo, in general, this Term comprehends every Solution of Continuity.

Q. What are the Differences of Ulcers?

A. Ulcers are of two forts, viz. Simple and Compound; now I call that a Simple Ulcer, which hath neither a Disease, Cause, nor Symptom joined to it, or complicate, besides the Solution of Unity; but in a Compound Ulcer, either some of these, or all, are sound.

Q. What are your Prognosticks in the Cure of

Ulcers ?

A. In a Person of a good Complexion it is easy of Cure, and in a bad one the contrary; in Moist and Hydropical Bodies, in aged Persons, in Children, and in Women with Child, they are difficult of Cure: Those in the Spondils of the Back and great Joints, are most commonly mortal; those of a round Figure are more difficult of Cure than those of any other form: in Hestick and Hydropick Persons they are hardly curable; if the Bone be foul, and the Ulcer livid, it is a bad Sign.

Q. How will you know when a Bone is foul?

A. (1.) If the Ulcer has been of long standing, (2.) If it has been cicatriz'd and breaks out again. (3.) If it yields more and thin Matter than the bigness of it requires. (4.) If the Brims of the Ulcer will not contract. (5.) If on the sight of the Bone it appears black, discoloured or rugged: And, (6.) If it does not yield to rational Applications.

Q. How do you discern the Times of an Ulcer?

A. In the beginning the Matter is waterish and thin; in the Increase, it flows more sparingly but thicker; in the State there is no Ichorous Matter but Pus, yet it looks somewhat thinner; and in the Declination, Laudable Pus appears.

Q. What is Laudable Pus?

A. It is white, uniform, and without ill smell.

Q. How is the Cure of an Ulcer performed?

A. (1.) By removing the Cause. (2.) By artificial Dressings.

Q. What are the Causes?

A. Generally a Cacochymia, and the Distemperature of the Part: The first has been spoke to before, in the Doctrine of Tumors; and the Distemperature of the Part is to be removed by things contrary to it; and in order to it, a convenient Diet must be prescribed.

Q. How must it be dreft, according to art?

A. In the Beginning, Digestives, are to be applied.

Q. Why fo?

A. (1.) Because the Matter which has left the Vessels, and has infinuated it self within the Porosities, corrupts: wherefore it must be concocled, that it may become Laudable Matter. (2) Flesh will not generate, nor can farcotical Medicines take place, unless the Matter be concocled.

Q. May Digestives be applied to all Ulcers?

A. No: (1.) Not to Putrid Ulcers, for Digestives being hot and moist, would here cause the greater Putresaction. (2.) Not to Rheumatick Ulcers, for Digestives relax the Part, and make it more subject to receive the Matter that flows.

Q. What is to be done next ?

A. Repelling Medicines are to be applied about the Ulcer, to repel the Matter that flows. (1.) To prevent Fluxion from the Parts adjacent. (2.) To strengthen them, that they may refift Fluxion. (3.) To further the Deficcation of the Ulcer.

Q. What are the Digestives ?

A. Pic. Refin. Cera, Unguent. Bafilic. Aureum, &c. cum Mercur. Præcipit. Rubr. Far. Tritic. Hordei, &c.

Q. What are your Repelling Medicines?

A. Succ.

A. Succ. Cydonior. Plantag. Acet. Vin. Rub. Fol. Rof. Rub. Ol. Myrtil. Mastic. Unguent. Alb. Ter. Sigillat. Far. Fabar. &c. Of Emplaisters, Empl. de Minio, de Sapone, Diapalma, Diacalciteos, &c. with proper Bandage.

Q. What is next to be done?

A. After good Digestion, I mundify or cleanse; for if we apply incarnative Medicines before the Ulcer is well digested and cleansed, spongy Flesh will grow in spite of all Endeavours; and so by consequence we cannot cicatrize.

Q. How will you know when an Ulcer is well di-

gefted?

A. If the Quittor is pretty laudable, and if the Edges of the Ulcer is well coloured and foft, &c.

Q. What are your mundifying Medicines?

A. Rad. Aristol. Rot. & Long. Virid. Æris, Merc. Præcipit. Rub. Mel. Succ. Apii, Mundificativ. Paracels. & ex Apio, Unguent. Apostolorum, Unguent. Basilic. cum Mercur. Præcipit. Rub. &c.

Q. How will you know when an Ulcer is suffici-

ently mundified?

A. When I fee it appears red, fensible, clean, and neither too dry nor too moist.

Q. What more is to be done?

A. I am next to Incarn, or fill with Flesh.

Q. What Medicines will you make use of?

A. Mastich. Myrrh. Sarcocol. Gum. Elemi, Tereb. Venet. Thus, Oliban. Liniment. Arcai, Unguent. Aureum, &c.

Q. What Rule is there in compounding of them?

A. They must not be either too soft nor too hard; for if they be too hard, the weak Part cannot well have the Benefit of them; and if they be too soft, the Heat of the Part will cause them to spread, and breed a Fungus.

Q. But Suppose a Fungus should arise, how will you abate it?

A. Then I use either strong Desiccatives, Cathe-

reticks, or corrupting Medicines.

Q. How do you time the Application of thefe?

A. If the Fungus be foft, and but beginning, I use strong Deficcatives only; such as, Ter. Sigillat. Lemnia, Bol. Aloes, Croc. Martis, Minium, Ceruffa, Litharg. Auri, Alum. Vit. Rom. &c.

Q. But suppose you find these not powerful enough?
A. Then I use Cathereticks; these burn, but gently, being hot and dry in the fourth Degree, and only superficially dry, and corrode the Flesh; (viz.) Alum. Uft. Virid. Æris, Merc. Præcipit. Rub. Turb. Miner. Unguent. Apostolor. Ægyptiac. &c.

Q. If the Fungus be fo hard and compact, that it refifts these Medicines, what must then be done?

A. In this Case some use Escharoticks, such as Lapis Infernalis, and the Lunar Caustick; but these are dangerous Medicines, and ought to be managed by a skilful hand; also Merc, Sublimat, mixed with calcined Roman Vitriol, and Ter. Sigillat. or Turb. Min. mingled with the same; Ol. Vit. Ol. Sulph. Aq. Fortis, &c. and the actual Cautery; all which are attended with Pain and Difficulty, and ought never to be used but in urgent Necessity and with great Caution; but rather use Fallopius's Catheretical Lint, (viz.) R. Aq. Plantag. Rof. Solani, ana 3iv. Opii Dj. Medul. Panis 3ij. Merc. Sublimat. Div. Super Porphyr. trit. omnia hæc commixta bulliant ad Confumpt. Med. dein colent Fila excerpta bulliant per pannum Crassiusculum. aliquandiu in boc liquore, postea eximantur, siccentur, ac ferv. ad usum.

Q. We will now Suppose the Fungus removed, but

what will you do next?

A. I must next endeavour to cicatrize, or skin the Ulcer, if it be filled up nearly smooth.

Q. How is this performed?

A. By Epuloticks; as Ter. Sigillat. As ustum, Minium, Cerust. Empl. Diapalm. Unguent. Desic. Rub. Empl. de Minio——Unguent. Alb. Camph. Aq. Calcis, Unguent. Diapomph. Vitr. Rom. and Dr. Turner's Ceratum ex lapide Calaminar. &c. the Recipe of which I here communicate, (viz.) Butyr. Maii sine sale, & Cera slav. purist. ana zxiv. Ol. Olivar. opt. sbj. Lap. Calaminar. Pulv. zx. zij. Ms. Fiat Cerat. S. A.

Q. At what time are Epuloticks to be applied?

A. Before the Flesh is even with the Skin, or whilst there is some Cavity; for if this be not minded, the Cicatrize is apt to be higher than it ought, and so would cause a deformity.

Q. You have given me the Signs of a corrupt or foul Bone; pray tell me how you will exfoliate or scale it, in order to cure the Ulcer, and then we will

proceed to particular Ulcers?

A. First, the Bone is to be laid bare; and, 2dly, the scaling, or exsoliating of the Bone, is to be effected by proper Means.

Q. How is the Bone to be laid bare?

A. Three Ways; (1.) By Incision. (2.) By the Potential Cautery; as Lapis Infernalis, the Lunar Caustick, &c. Or, (3.) By Dilatation, inlarging the Ulcer, tho' the Bone appears but a little: And this is done by Sponge dipt in some Melilot-Plaister, and press'd hard till it is cold, and then cut out into Tents; also Tents made of Gentian, or Pith of Elder.

Q. Are either of these to be used to all Parts in-

differently ?

A. No: The Potential Cautery is not to be used, where many Nerves or Tendons are, left they

they cause (by their great Pain) symptomatical Fewers and Convulsions; but they are rather to be applied where there is a Caries of the Ulna and Tibia. Dilatation is to be used where Incision or the Potential Cautery may not; (viz.) On the back of the Hand, Instep, and Metatarsus; nor may Incision be used at all where Bones lie deep, and have Veins, Tendons, and Arteries above them.

Q. The Bone being bare, how is it to be exfoliated?

A. By Medicines, Instruments, or actual Cau-

tery.

Q. What are your desquamatory Medicines?

A. They ought to be very drying; and if the Caries be only superficial, those of the first fort may serve; as Pulv. Myrrh. Rad. Aristol. Rot. &c. And if the Cariosity be something deep, a second fort must be used; as, Rad. Pucedan. Euphorb. Aloes, &c. And if the Caries be very deep, we must use Tinet. Euphorb. Ol. Caryoph. Ol. Sulph. Vit. Rom. Calcinat. &c.

Q. If it be done by Medicines, how long Time will

it require?

A. If they be rightly applied, about forty Days will do the Work.

Q. But suppose the Caries will not yield to Medi-

cines, what then?

A. Then we must have recourse to Instruments; the principal of which is, Mallet, Chissel, and Raspatory; the Caries is to be taken off with the two first, and the Bone to be smoothed by the last: And then some of the sormer desquamatory Medicines must be applied; but if both Tables of the Cranium be soul, we must use the Trepan: The Use of which shall be treated of in another Place.

Q. How is the Bone to be scaled by actual Cautery?

A. The Cautery is to be red-hot; and, if the Bone lie deep, it is to be conveyed to it through a

Pipe of Iron; and, if it be superficial, the Parts are to be covered by double Implaister, to prevent their being burnt.

Q. May it be applied to any Part?

A. No: Not to the Skull, nor Vertebræ of the Back; because of hurting the Brain in the one, and the Spinalis Medulla in the other.

Q. How is the Bone to be dress'd after Cauterizing?

A. For some sew Dressings, to hinder Instammation, use Aq. Rosar. and Alb. Ovi; and then apply to it exsoliating Medicines. Some use for the first three days, Ol. Rosar. cum Alb. Ovi; and for three other Days, Ol. Rosar. & Vitel. Ovi; and afterwards Butyr. cum Mel. Rosar. and over that some Detersive: And continue this Method till the Bone scales; and afterwards Incarn and Consolidate with Rad. Aristol. Iris, Myrrh. and such like.

Q. What do the Surgeons mean by Sordes, Ichor,

and Sanies, in Ulcers?

A. The Excrement which they call Sordes, is thick and glutinous; that which they call Icher, is thin and waterish, like to Water wherein Flesh has been boiled, having received no Alteration, but has flowed pure, as it is in the Veins and Flesh. Sanies, or Virus, is thin also, but has received some Alteration, by the Temperature of the Part.



Of a Simple, Plain, and Hollow ULCER. 41

CHAP. XI.

Of a Simple, Plain, and Hollow ULCER.

Q. IN the last Chapter, you told me the Difference between a simple and compound Ulcer; pray tell nie now, how many kinds of simple Ulcers there are?

A. Two: The one is plain, and equal to the natural skin, and wherein only the Cutis and Cuticula are lost; the second is hollow, wherein besides the Cutis and Cuticula, part of the Flesh is gone also.

Q. How will you effect the Cure?

A. One Method ferves for both. If the Blood be not pure, it is to be altered; as, if it be too thin, thick, hot, or cold; if it offends either in Quality or Quality, the Patient is to be managed accordingly; the Non-naturals are to be discreetly ordered, and the Patient kept in due Temper, &c.

Q. What are the Non-naturals?

A. (1.) Excess in Eating, or Abstinence. (2.) Too much Motion, or Rest. (3.) Too much Sleep, or Watching. (4.) Too much Evacuation, or Retention. (5.) Too much Perturbation of Mind. (6.) The Air too hot, cold, dry or moist.

Q. What are the Prognosticks in Simple Ulcers?

A. The Cure becomes difficult or easy, according to the Nature of the Part ulcerated, and the Diet of the Patient. They are more easily cured in a fleshy Part, than in a Joint or Nervous Part; so more easy in a temperate Person than in one given to Debauchery.

4. Q. What

42 Of Compound, but Mild, ULCERS:

Q. What is your Method of Cure?

A. Digest with Terebinth. lot. in Aq. Font. & adde Vitell. Ovi, or any Digeffive in use, according to Occasion: Or you may both digest, deterge, and incarn, by Unguent. Basilie. alone, or mixed with Liniment. Arcai, & Merc. Pracipit. Rub. in fit Quantities; and over this, Emplastr. de Minio, Diapalma or Diacalciteos; and, if need be, a Cloth wrung out of red Wine, over all. When it is well digested, mundify, incarn, and cicatrize, as directed in the former Chapter. If you are Mafter of your Business, and know exactly when to digeft, when to deterge, when to incarn, and when to cicatrize, very great Performances may be done, with only Basilicon, Precipitate, and dry Lint, without any other Applications whatfoever; but the whole Art lies in timing things, which you must learn by Observation.

CHAP. XII.

Of Compound, but Mild ULCERS, in general

Q. YOU have already told me that a compound Ulcer has a Disease, or a Cause, or Symptom annexed to it; pray tell me now, what you mean

by thefe?

A. Many Diseases in Man's Body keep Ulcers from healing; some corrupt the Humours, as the Leprosy and French-Pox; some hinder laudable Blood to be sent in sufficient Quantity, as the Phthisis and Hestick Fever; and some send too much waterish Humours with the Blood, as the Dropsy, &c. All which hinder the Union of the ulcerated Part.

Q. Pro-

Of Compound, but Mild, ULCERS. 43

Q. Proceed.

A. If the Humour offend in Quantity, it is to be abated by *Phlebotomy*, Catharticks, and flender Diet; if it offend both in Quantity and Quality, we are to use both purging and altering Medicines. So far of its Process, accompanied with a Disease; we next come to discourse of it, as it has a Cause annexed to it, and that is the Distemperature of the Part.

Q. What is that?

A. The fingle Distemperatures are in number four; (viz.) too dry, too moist, too hot, and too cold.

Q. How do you know the dry Distemperature?

A. The Colour of the Ulcer is ill to look to, if you touch it, it feems hard and dry, and little or no Matter flows from it.

Q. How is it to be removed ?

A. If the Body be plethorick or caccebymick, in the first place bleed and purge; then foment with warm Water, and apply Water and Oil mixed, a Cloth or Pledget being wet in it, and laid over the Ulcer.

Q. How long will you use this Method?

A. Till the Part is a little tumified, foft and moist, and of a ruddy Colour.

Q. How do you know a moist Distemperature?

A. The Flesh will be apt to be moist, a Fungus will be apt to grow, and plenty of Excrements will flow from the Ulcer.

Q. How is it to be removed?

A. Strong Sarcoticks, or Deficcatives mixed with Digestives or Incarnatives are to be used; (viz.) Plumb. ust. Lap. Calaminar. Rad. Irid. Gum Oliban. Mastich. Æs ustum, &c.

Q. How is a hot Distemperature known?

C 5

A. The

44 Of Compound, but Mild, ULCERS.

A. The ulcerated Part will be somewhat tumified, hard and red, and the Party's Complaint, and your own Touch, will inform you.

Q. How is this to be removed?

A. Dissolve zij. of Alum. Roch. in Aq. Plantag. Toj. or dissolve Vit. Alb. or Vit. Rom. in Aq. Plantag. or Aq. Sperm. Ranar. &c.

Q. How do you know a cold Distemperature?

A. By its Colour, Hardness, Sense of the Patient, and your own Feeling.

Q. How is this to be remedied?

A. (1.) Foment the Part with a Fomentation made ex Cerevis. Fort. wherein has been boiled Calamint. Centaur. Absynth. Chamæmel. Tanaset. Scord. Rata, &c. Then dress the Ulcer with a Digestive and an Emplaister ex Paracels. Diach. cum Gum de Mucilaginib. &c. over all.

Q. What do you mean by a Symptom annexed to

an Ulcer?

A. Chiefly Pain; which by Attraction brings Humidity to the Part, and so obstructs the Cure; it also instames the Part, causing Watching, Fainting, and sometimes Convulsions.

Q. How is Pain to be removed ?

A. Two ways: (1.) By taking away its Cause, which is Affluxion of Humours. (2.) By Application of Anodyne Medicines; both which have been spoken to, in the Doctrine of Tumours, Page 2, 6, &c. Out of which frame Cataplasms or other Dressings at your Discretion.



Of a Sinuous ULCER, without Callofity. 45



CHAP. XIII.

Of a Sinuous ULCER, without any Callofity.

Q. TATHAT is a Sinuous. Ulcer?

A. Surgeons call that Ulcus Sinofum, which is hollow like a Coney-Burrow; they are fometimes fuperficial, fometimes deep, fometimes ftrait, and fometimes oblique, &c. Some of which have neither Hardness nor Callosuy, which we term Ulcera Cavernosa; and some have both Hardness and Callosuy, and these are called Fisculæ.

Q. How is Ulcera Cavernofa, without Callofity

cured ?

A. (1.) By Injection of fit Medicines without opening. (2.) By opening, and dreffing it artificially.

Q. Suppose you was to do it without opening, how

would you proceed?

A. First the Cavity is to be filled with Flesh, and the disjoined Parts are to be agglutinated.

Q. Of what Nature ought the Application to be?

A. The Incarnatives must dry without Erosion, and the Glutinatives must have both Assirtion and Dryness.

Q. What Medicines are they?

A. An Injection of Aq. Hord. Mel. Rosar. Myrrh. Sarcocol. Bacc. Myrt. Sumach. Rad. Tormentil. Spir. Vin. &c. fitted in due Proportions, and strongly boiled, and injected warm.

Q. How will you know when 'tis sufficiently mun-

dified ?

A. When I find the Quittor neither stinking, reddish, pale, black, nor waterish.

C 6

Q. Well;

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Q. Well; but if it be not enough mundified, how

will you proceed ?

A. Then I will form Injections ex Centaur. Abfynth. Marub. Alb. Card. Ben. &c. decocted in Wine, with an Addition of Mel. Egyptiac. & Mel. Rosar.

Q. How is it to be dreffed artificially?

A. (1.) Lay upon it (the whole length of the Cavity) Empl. ad Herniam, folded four or fix times double when spread, to press the Parts together when rolled, in order to Union, and then inject your Medicine; then put in a short leaden Pipe, having the Brims turned back, to keep it from flipping in; then shut up the Orifice and the Tent with a Bit of the aforefaid Emplaister, fnipp'd in the middle, to let out the Quittor; above that, place a Piece of Spunge, moistened with the Medicine with which you dress the Ulcer; and over that place a Pledget of Tow. On the Cavity of the Ulcer lay a thick Bolster; and over all, a foft Linnen-Cloth double; then begin your Rolling at the Bottom, where it must be something strait, (but not so as to cause Pain) to press out the Quittor, and cause Agglutination.

Q. How often is it to be dreffed?

A. If much Matter does not flow, dress it every third Day.

Q. How willyou know if it is about to agglutinate?

A. If I find the Matter abate, is laudable in Colour and Confistence, and have no ill smell, and

if the Cavity be without Pain and Tumor. Q. But why must it be dress'd so seldom?

A. Because often dressing gives way to cold air, which hinders Union.

Q. But was must be done if the Cavity be lower

than the Orifice?

Of a Sinuous ULCER, without Callosity. 47

A. Way must be made for the Quittor two Ways: (1.) Either by opening the lower end of the Sinus only: Or, (2.) By laying open the whole Cavity; for if one of these be not done, no Cure can be expected.

Q. In what Cavities will you lay open the lower-end

[only]?

A. (1.) If the Sinus be of an extravagant Bigness. (2.) Or if it be in a great Joint: Or, if there be Nerves, Tendons, great Veins, or Arteries in the way, these Reasons of which are evident.

Q. How are these ways to be performed?

A. By Caustick, or Incision.

Q. In what Cases is a Caustick most proper?

A. (1.) If the Patient be timorous. (2.) If he be fick and weak. (3.) If it be in a Part that may cause Deformity. (4.) If there is fear of a Flux of Blood.

Q. What do you observe in applying your Causticks?

A. If the Situation of the Part or Member, wherein the Sinus is, be in the upper side, then Lapis Infernalis is best; but if on the lower side, then the common Caustick is best.

Q. How will you open it by Incision?

A. Either with an Incision-Knise, and Directory, or with the Probe-Scissars, which is best; then fill it with Dorsels, to keep the Lips as funder, and arm them with Rectitives, as in other Cases.

Q. But what if you find, that notwithstanding all

this, the Ulcer does not heal as you expect?

A. Then I must give Drinks made of Sarsaparilla, Guaiacum, China, Agrimon. Hyperic. Virg. Aurea, Sigil. Solomon. Rad. Symphit. Torment. Bistort. Marub. &c. Which the Patient must drink of, for three Weeks or a Month, and keep to a fpare Diet, and such as is of easy Digestion; Or let the Patient take 3j. of Tinetura Gum Guaiaci, in Syrup of Damask Rose-water, and then mixed with a glass of Wine in the Morning fasting, half an hour before Dinner, and last at Night, going to Bed. The Prescription is this; & Spirit. Vin. Rest. ship. Pulv. Gum Guaiaci 3iv. Dissolv. in Balneo, till the Tineture becomes reddish, &c.

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CHAP. XIV.

Of the palliative Cure of SINUOUS ULCERS. or FISTULAS with Callofity in general.

Q. WHAT is a Fiftula?

A. It is a Sinuous Ulcer, narrow, and long, with Callosty, and virulent stinking Matter, with little Pain.

Q. How will you know to what Part the Fistula

paffeth ?

A. If it paffeth to the fleshy Parts, the Matter appears white, smooth and plentiful, and the Part where your Probe stops, seems soft. If it pass to a Nerve, a fat and oily Matter comes forth; the Motion which is caused by that Nerve is impaired, and the Fistula is more than ordinary painful, and the Bottom being touched by your Probe, causeth a Pain and Numbness. If it pals to the Veins and Arteries, yet so as their Coats be not eroded, then the Matter looks like Lees of red Wine; if it has corroded a Vein, Blood iffues out thick, of a dark Colour, without Impetuolity; but if an Artery be wounded, the Blood is more red, bright, and comes forth with leaping and Violence, (or per Saltum, as Surgeons call it;) if

it has passed to the Bone, and that be corrupt, the Matter is yellow, of an ill Scent, and the Bone is to be felt rough, uneven, &c.

Q. What Presages can you make concerning the

Cure of Fiftulas?

A. No Fiftula is of eafy Cure: (1.) Because of the Unfitness of the Part to receive proper Medicines. (2.) By reason of the Quality of the Medicines, which must be sharp and biting, and so cause Pain; from whence often come Fevers and Faintings, &c. (3.) Those which are superficial are more easy of Cure than those which are deep. (4.) Those with many Sinuosities, require Incision. (5.) In those ending on Veins and Arteries, you are to encounter with Hemorrhages. (6.) In those on the Nerves and Tendons, with Pain and Numbness. (7.) Where the End is more depending than the Orifice, it is hard of Cure. (8.) In Fiftulas of the Back, if the Spine be carious, thun the Cure. (9.) Fistulas in the Joints are dange-(10.) Fiftulas of a long standing, in a de- . pending remote Part, by which Nature hath been used to discharge her self of Superfluities, if they are not painful, may rather be kept open than cured; for they hinder Diseases, and keep the Body in Health.

Q. What do you call a palliative Cure?

A. It is when a Sinuosity is inwardly dried for a time, and the Orifice seems shut up by a thin Skin, until new Moisture opens the Orifice again: Or, it is a Method whereby it is not suffered to grow worse, but by Art is made more easy, and the Life of the Patient is more comfortable than otherwise it would be.

Q. How is this done?

A. (1.) By a convenient Diet, feeding on such Meats as are of an easy Digestion and afford good Juice. Juice, the Body is to be purged by gentle Means, either by Diet-Drinks or purging Ale, made of Sarfa. Rad. Symphit. Polyood. Tormentil. Hermodact. Fol. Sen. Rad. Liquer. Sent. Juit, Guaiacum, Sanicul. Alchimil. 200. and drink offic three times a Day. (2) By local Application. Injections of Aq. Calcia Syr. Raf. 64. 1933 Myrtellor. Litharg. Auri, &c. Or, ex Aq. Plantag. Vit. Rom. &c. injected warms. Lay to the Orifice a Pledget of Lint wet in the fame. and about that a Diapalma Plaister, &c. and dress to my every other Day.



Of the true Cure of FISTEL as in general.

Q. BY what Means will you obtain a Cure of a Fiftula?

A. By Diet, Medicine, and manual Operation.

Q. What Diet do you advise?

A. The same as in the Cure of an Ulcer, but it ought to be taken very sparingly, and such as is of easy Digestion.

Q. What is your pharmaceutical, or Medicinal

Method?

A. If a Cacochymia or Plethora have seized the Patient, let him take for some time some purging Ale, composed of Sarsaparilla, Guaiacum, Rad. Bistort. Symphit. Tormentil. Polypod. Fol. Alchimil. Sanicul. Fol. Sen. Sem. Anisi, Fænicul. Rad. Glycyrrh. &c. Also you may give Elect. Cariocostin. è Succo Rosar. &c. After the use of these, you may give a consolidative Drink made of Rad. Osmond. Regal. Centaur. Min. Agrimon. Vinca Pervinca, Virga Aurea, Symphit. Plantag. Equiset. &c. which

is to be drank of, three or four times a day, a Pint at a time, which may be sweetened with Sugar, if the Patient will.

Q. What is your Chirurgical Method?

A. (1.) The Fistula is to be dilated. (2.) The Callus is to be removed. (3.) The Part is to be mundified. (4.) Union or Confolidation is to be procured. (5.) And then it is to be cicatrized.

Q. How is it to be dilated ?

A. Three several Ways: As, (1.) By Incision. (2.) By Tents of Sponge, or Rad. Gentian. or Pith of Elder. And (3.) By the Fiftula Tent.

Q. In what Cases will you make Incision?

A. If the Fistula is not deep, and in strong Bodies; but if it has many Sinussities, or a Callosity, the one is to be dilated, and the other removed, before Incision be made.

Q. How do you prepare your Sponge Tents?

A. Melt a sufficient Quantity of Melilot Plaister, and, whilst it is hot, put a Sponge into it, to suck it up; then take it and put it into a Press, and squeeze it hard, where let it remain till cold; then cut it out into Tents of what form you please.

Q. How is the Fiftula Tent prepared?

A. Take all the Down (without any of the Threads) of fine Lint, with which mix some of the White of an Egg beaten, and make Tents of what length your Fistula requires; make them upon a smooth Deal Board, and dry them, which will be stiff and pierce like a Probe, and which may be armed with fit Medicines, &c.

Q. How must the Callosity be removed?

A. Either by Medicines or the actual Cautery.

Q. What are the Medicines?

as are caustick. The first Sort are of an emollient, digestive Quality, and to be used if the Callus Callus be but small, in a fleshy Part, and a young Patient: As, Unguent. Dialthea, or Nicotiana mixed with Turbith. Mineral. or Pracipit. Rub. &c. Of the second fort, are Unguent. Apostolor. cum Turb. Min. vel Pracipit. Rub. Alum. uft. &c. Of the third fort, (viz.) Causticks, some are more gentle, as Auripigment. Calc. Viv. Sulph. Viv. &c. Of the fecond Sort, are Virid. Æris, Vitri, Calcinat. Alum. uft. Turb. Min. Vitriol. Vomitiv. &c. mixed in fit Proportions, which are thus to be used: If the Fistula is dilated by Incision, sprinkle the Calles with fome of these Powders: Or, if you use Tents, mix these Powders with some Populeon, and arm your Tents with it. But where there is great Callosity, and the Sinus small, and its Mouth fungous, I use the following Troches; R. Mic. Panis 3ij. vel q. f. Pulv. fubriliff. Merc. Sublimat. 31s. Pulv. Phonb. Rub. & Rad. Gentiana ana zij. mifee. Of thefe (being well incorporated) make Troches and Tents of divers Forms, and dry them; and either put one into the Fiftula, or upon its Mouth, or (if superficial) its whole Length, and in twelve Hours or less, (according as it is deep, or superficial) it will do its Work effectually and fafely, and with but little Pain: But take care it be not apply'd to Nerves or Arteries, for fear of Mischief.

Q. Very well; but what is to be done afterwards?

A. You must, twice a day, apply to the Part an Anodyne Cataplasm, and you must let the Tent remain in the Fistula, till it falls out of itself, (unless you have Reasons to the contrary) because they will (by so doing) bring the Callus out with them: And as to the actual Gautery, it is to be used as seldom as possible, and with great Cau-

tion, as the able Surgeon fees fit.

Q. How will you mundify?

A. By Unguent. Ægyptiac. mixed with Brandy or

Wine, and injected warm once a day.

Q. How will you confolidate, or unite the Parts? A. Decoct. Rad. Arift. Rot. Torment. Biftort. Symphit. Gentaur. Min. Virg. Aurea, Sigil. Solomon. Plantag. &c. very strongly; then, whilst warm, add to every Pint Mel. Angl. Ziv. boil it again; strain and clarify it, which inject into the Fistula warm; and dress it as directed in the Cure of a Sinuous Ulcer.

Q. How is it to be cicatrized?

A. That calls for no new Directions.

Q. How shall I know when it is near cured?

A. You may judge it to be fo, when the Humour is thick, little, white, even, and the Place void of Pain and Tumour.

CHAP. XVI.

Of a FISTULA LACHRYMALIS.

Q. WHAT is a Fistula Lachrymalis?

A. A Tumor called Anchilops, arising between the great Corner of the Eye and
the Nose; if it apostemates, it is called Agilops;
which, being neglected, degenerates into a Fistula,
even quite to the Bone, which is called Fistula
Lachrymalis.

Q. What are the Signs of it?

A. (1.) It is known by its Orifice. (2.) By pressing with the Finger, the Matter issues out. (3.) By passing a small Probe to the End of its Sinus.

Q What are the Prognosticks?

A. (1.) All these Fistulas are of hard Cure. (2.) If the Quitter has made its way into the inner Passage of the Nose, it is not to be cured. (3.) If it turns cancerous, we are only to use a palliative Cure. (4.) If it continues long, it causes a Consumption of the Eye, or Blindness.

Q. Why are they of hard Cure?

A. (1.) By reason of the Humidity of the Part. (2.) By reason of its continual Motion. And, lastly, by reason of the Tenderness of the Place.

Q. By what Signs do you know it to be cancerous?

A. By its livid, hard Brims, exquisite Pain, and

fætid virulent Matter?

Q. How will you cure a Fiftula Lachrymalis not

cancerous?

A. (1.) Dilate it with the Fistula Tent, and then enlarge it with the Sponge Tent. (2.) You are to remove the Callosity with Merc. Pracipit. Rub. Turb. Min. lot. Unguent. Popul. &c. as before directed. (3.) You must mundify with Mel. Rosar. in Aq. Ruta warm, once a day. (4.) Confolidate with Aq. Plantag. cum Syr. è Ros. sicc. And, (5.) cicatrize with Empl. de Minio, Diapalma, cum Succis, &c.

Q. How will do if the Bone be foul?

A. This is rectified two ways: (1.) By actual Cautery. (2.) By Incision.

Q. As bow?

A. The actual Cautery carries Horror with it; yet most Authors like it as the best way. It must be made in the Form of an Olive-Stone, and the Parts are to be defended from the Fire with a hollow Plate, or else pass it through a Canula; and afterwards apply to it Pledgets dipped in Vin. Rub. and over all Diapalma, &c. till the Bone scales; then manage it as has been before directed.

Q. How is the Incision to be made?

A. Having with a Probe found out the Cavity, both upwards and downwards, draw a Line with Ink, between the Glands of the Eye and the Trochlea, thro' which the small Tendon of the Musculus superior (vel major) passeth, and ends obliquely in the superior Part of the Cornea; then make Incision to the Bone, and dilate the Incision with your Nails; then thrust in a small Troch made of Turb. Min. Ter. Sigil. & Populeon, and about it lay a Pledget of Populeon, and over that Empl. Diapalm. and with fit Boulstering and Bandage roll it up, first filling the Orbit of the Eye with soft Linen Boulsters dipped in Aq. Sperm. Ranar.

Q. How long is this Method to be used?

A. Morning and Evening, until the Troch with the Callus fall out of its own accord, and then upon the Bone, so far as it is carious, I apply Pulv. Euphorb. then fill up the Cavity with a Piece of Sponge prepared with Melilot; over that a Pledget of Unguent. Popul. and an Emplaister, and roll it up as before directed.

Q. How long are these Dressings to be used?

A. Until the Bone scales, which is about twenty Days after; then mundify, consolidate, and cicatrize, as before directed.

Q. But suppose that the whole Substance of the Bone of the Nose joining to the Fistula be foul, and so (after the Fistula be healed) it breaks out again?

A. Then enlarge the Sinussity till the corrupt Bone appears; then pierce the Bone of the Nose with some sit Instrument, that the Quittor may discharge through the Nostrils, and proceed to heal, as is directed in the palliative Cure.

Q. But if it proves cancerous, how will you proceed?

A. The best Medicine in this Case, is quoted by Dr. Read (the Surgeon, not the Quack) from Heurnius, and is this; K Calaminar, Ter. ust. atque

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CHAP. XVII.

Of a FISTULA in the Breast.

Q. HOW does a Fistula Thoracis happen?

A. By a penetrating Wound of the Breast, or from a Phlegmon possessing the Pleura and intercostal Muscles.

Q. What are the Signs of a Fistula Thoracis?

A. They are obvious to every eye; it is therefore needless to give any.

Q. What are then the Differences of these Fistulas?

A. Those which follow a Wound have but one Orifice, and that according to the Penetration of the Wound; but that which ensues an Imposthume has commonly more Orifices than one, some

of which pass directly, and some curved.

Q. Give the Prognosticks.

A. All Fifulas of the Breaft are of difficult Cure.

Q. Why fo?

A. (1.) Because the Breast is in continual Motion. (2.) In these Fistulas the Pleura is commonly ulcerate, which hardly admits of Cure. (3.) It often corrupts a Rib. (4.) The end of it is commonly lower than its Orifice, which prevents Expulsion of Quitter. (5.) Great Caution is to be used in the Application of Medicines, in this Case more than in other Parts. (6.) Because Fistulas here waste the Body, and produce Hestick Fevers; which

which if once formed, are scarce ever curable, joined with a Fistula of the Breast.

Q. How is it to be cured, if curable?

A. By a convenient Diet, pectoral Decoctions, and fit Applications.

Q. What is to be prescribed?

A. Such as is ordered in the general Cure of Ulcers.

Q. Of what are your pectoral Decoctions com-

pounded?

A. Ex Flor. & Fol. Tuffilag. Capil. Veneris. Marub. Alb. Symphit. Tormentil. Biftort. Flor. Violar. & Borag. Rad. Enulæ, Fol. Hyfop. Flor. & Rad. Malvar. Rad. Petroselin. Fænicul. Liquorit. Scabious, Valerian, Sarsaparilla, China, Guaiacum, Uvar. Paff. Fic. pinguid. &c. Of thefe, Drinks are to be made, and drank in large Quantities, at least two Quarts in a Day. But that you may have a certain Prescription to depend upon, take this following, which has done Wonders in this Case, and will effect a Cure, if the Patient is curable, (viz.) R. Rad. Liquorit. 3iv. Raf. C.C. 3ij. Raf. Eboris 3j. Sant. Citri 3ij. Lign. Saffafr. & Sarfaparilla, ana 3ij. Capil. Veneris, Ling. Cervin. Heder. Terrestr. Tussilag. Agrimon. ana Miij. Coq. omn. in Cong. vj. Aq. Font. ad Cong. iv. cum Uv. Paff. Exacinat. toj. Mel. Anglican. to viij. Boil, strain, and ferment with Yest, (like Ale) and when it is almost fermented enough, hang in it (in a Bag) Nuc. Mofc. Contuf. No. iij. Fol. Rorifmar. fice. Mj. Keep it a Week, and then drink it for common Drink, for four or fix Weeks. If a Fever attends, use the Cortex also; and if it be very high, make the Drink with half Honey, and half Sugar.

Q. You say, that one Reason why a Fistula of the Breast is of difficult Cure, is, because the Ending of

the Fistula is lower than the external Orifice; pray

tell me how this is to be remedied?

A. By Incision; in which two things are to be considered; first, the Place; and, secondly, the Care to be used in the Operation.

Q. What Place is best?

A. The left fide rather than the right, for fear of wounding the Liver, or the Diaphragma, which it beareth up; and as for the particular Part, let it be about the beginning of the next Rib, above which the Orifice of the Fistula shews itself.

Q. How is it done?

A. Divide the Skin towards the upper Part of the lower Rib, then make way throughout the intercostal Muscles, and dry all with a Sponge, and put in a Sponge Tent; and if you pass no further than the Division of the Pleura, you are safe.

Q. But what are the Signs of an Hectick Fever?

A. If it be confirmed, the Eyes grow hollow, the Colour of the Skin decays, the Skin of the Forehead seems dry and stretched out, the Eyelids are heavy, the Cavity of the Breast seems as hollow as if it was without Viscera, and the Body is a mere Skeleton: These are true Signs of a Hectick Fever, or a dry Marasmus.

Q. But if such a one comes to you, and implores your Help, and you tell him his Danger, and that you believe him past Recovery, yet he still desires you to do what you can, what is the Method you would use,

to make his Life easy?

A. I would inject into the Fiftula, Aq. Plantag. in which Fol. Rof. Rub. have been boiled, and cover my Tent with Diapalma; I would order him Broths of Mutton, Veal, Chicken, &c. wherein had been boiled French-Barley, Mallows, Raifins, Mari-

Marigold-Flowers, Cowflip-Flowers, Coltsfoot-Flowers, &c. Also give him fellies, Almond-Milk, Goats-Milk, or Asses-Milk, Calves Feet stewed, poached Eggs, and fresh sweet Butter; and if by this Method he gathers any Strength, be not out of hope, and encourage the Patient.

Q. But what are your local Medicines in Fiftula's

here without a Hectick Fever?

A. The Method here differs but little from the general Method: Dilate with the Fistula Tent and Sponge; but in removing the Callus, take care that the Trochisk do not reach to the Cavity of the Breast, but rather apply a Tent arm'd with Populeon, wherein some Fistula-Powder has been mingled; and when the Callus is removed, mundify with Aq. Calcis, and Mel. Rosar. (but take heed of injecting any bitter Medicine.) This being done, proceed, and consolidate with an Injection of Aq. Plantag. & Syr. è Ros. sicc. Then wet a Pledget in this Syrup, and lay over the Orifice, and an Emplaister ex Paracels. over all, &c.



CHAP. XVIII.

Of a FISTULA in the Belly.

Q. WHAT Parts do you include, when you fpeak of a Fistula in the Belly?

A. I understand and include the inguinal Parts,

and in Ano.

Q. From whence do Fiftula's in the Groin proceed?

A. Either from Venereal Buboes, neglected or ill-cured, or from a Plethora and Cacochymia, the Matter not coming to the Emunctories themselves, which receive the Excrements of the Liver, but D hinder'd

hinder'd either thro' Weakness of the expulsive Faculty, or by the crossing of the Muscles.

Q. What Presages can you make in this Case?

A. Fistulas in these Places, which pass to the Cavity of the Abdomen, are very hardly cured; and if the Guts are eroded, and the Excrements come forth, 'tis great odds, but Death puts an end to the Controversy; tho' such things have by chance been cured, and therefore Men are not to

be left to perish without Help.

And if there is any Belief in Man, by the Diet-Drink in the foregoing Chapter, Mr. Paine, a very fensible ingenious Surgeon, and an honest sober Man, now living at Laystoff in Suffolk, (from whom I first had the Prescription) told me, That a Woman, who by reason of a Tumor on the Abdomen, had a Mortification of the Intestines, with loss of Substance there, whereby the Excrements came continually out; and altho' all hopes of Life were gone, was perfectly cured, (as it were miraculously) by the internal Use (alone) of that Drink, with fit external Applications; And, what has been, may be; therefore never despair, so long as there is Life; and fuch a Cure will never want Applause, nor fail of Reputation as well as Reward.

Q. How are these Fistulas to be cured?

A. If they run along superficially, the best way is to lay them open, and then the Fistula Powder to be applied, and follow the Method already laid down, in order to finish the Cure.

Q. Tho' you can promise no Cure, if the Spine be foul, yet something must be done, as long as there is Life; pray how will you dress such a Patient?

A. Only use such an Injection as this of Aq. Plantag. Syr. Ros. sicc. Tinet. Myrrhæ, &c. with a Plaister ex Paracels. &c. over all.

Q. But

Q. But suppose the Guts are perforated, and the

Excrements come forth?

A. Let the Patient's Diet be Sheeps and Calves-Heads and Feet stewed; also Rice boiled in Milk, wherein Steel has been often quenched; also a Glass of red Wine with a Toast, and use the Diet-Drink aforesaid, and keep the Orifice open with a Sponge Tent, till the Gut be healed. Disfolve a little Alum. Roch. in Vin. Rubr. and add Syr. Myrtillor. and make an Injection; and for the rest of the Cure, do as has been directed.

Q. From whence proceeds a Fistula in Ano?

A. Most commonly from a Phlegmon there, broke, and ill-cured.

Q. What are the Differences of Fistulæ in Ano?

A. Some penetrate the Intestinum Rectum, and fome do not; and both these again, are either

superficial or deep.

Q. How will you know whether it has pierced the

Intestinum Rectum, or not?

A. By these Signs: (1.) If upon breaking Wind part of it makes way thro' the Sinus. (2.) If the Excrements appear mingled with the Quittor. (3.) If an Injection passes quite through. (4.) By the Finger and Probe.

Q. What Prognosticks have you in this?
A. No Fistula in Ano is easy of Cure.

Q. Why?

A. Because this Part is the Sink of the whole Body, and affords great Quantity of Filth and superfluous Humidity, which hinders the Cure.

Q. How will you proceed in the Cure?

A. It is to be effected, (1.) By convenient Diet.
(2.) By inward Medicines. (3.) By Incision or Deligation: And (4.) By proper Medicines.

Q. What Diet and internal Medicines are best?

A. That which I have already directed.

Q. When is Incision or Deligation to be attempted?

A. When the Fistula is superficial, and not else.

Q. How is Incision to be made?

A. If the Fistula does not pass to the Intestinum Rectum, after you have enlarged it and removed the Callosity, lay it open by a Snip of your Probe-Scissors, and by Dorsels keep the Lips as a funder; then digest, mundify, incarn, &c. as has been directed; and be sure to take care, that sound good Flesh be generated in the Bottom, before you endeavour to unite the Brims.

Q. But suppose it to go deep inwardly, and you

cannot come to make Incision?

A. Then dilate the Fiftula with the Fiftula or Sponge-Tent, and remove the Callus with the Trochifk aforesaid; which being come out, and the Callus quite gone, cleanse with Mel. Ros. Aq. Calcis; then consolidate and cicatrize, as has been taught; and remember daily to shorten your Tents, till the Sinus is quite fill'd up, which you shall know by the Goodness and small Quantity of the Matter it yields. But if the Fistula reach into the Intestinum Rectum, then cutting as funder the whole Length of the Sinus by Deligation, is the best way to cure it.

Q. How is that performed?

A. First dilate the Sinus, and remove the Callus, as has been taught, and then take a strong Thread of Silk, or Hemp unwhitened, and put one End of it into the Eye of a small Probe or Needle, of Lead, or Silver, or other thing that will bend; then put the Eye with the Thread thro' the Sinus to the Intessinum Restum; then put your Fore-Finger into the Anus, and pull the Thread and Probe out of the Anus; then make good Deligation, tying the Ends of the Silk with a running Knot, that it may be the more easily loosen'd; and so more and more

draw in the Ends of the Thread at every dreffing, if it may be permitted: And when the Sinus, by this way, is wholly divided, proceed in the Cure as has been taught; but remember to put under the Knot a small Boulster of Linen; which will be for the great Ease of the Patient; and without it the Ligature will not be tolerable.

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CHAP. XIX.

Of an HERPES EXEDENS.

Q.TXT HAT is an Herpes? A. It hath its Name à Serpendo, from its creeping Quality. There are three Species of it: (1.) A Simple Herpes, which is a Puffule of a yellowish inflamed Colour, with a sharp Head; in the Face they appear fingle, and in other Parts fometimes, and are generally called Cholerick Pustules. When they overspread the Back, Sides, or Breaft, they are accompanied with an Erysipelas, and are then called Shingles. (2.) Herpes Miliaris; this ariseth in a Cluster of small Wheals, not much differing from the Colour of the Skin: they itch, and being scratched, they weep a thin Water, which drying, a Scab appears at the head of each Wheal, in the form of Millet-Seed, from whence it hath its Name. (3.) Herpes Exedens; this rifeth in the Skin, in a small Tubercle, on the Top of which appears an Ulcer like a Pin-Hole, which in Time grows broad, uneven, and fometimes livid, and will heal in the middle, whilft the Brims continue fore.

Q. What is required in the Cure of an Herpes Exedens?

A. (1.) The Humour which flows to the Part is to be flay'd. (2.) The Humour already in the Part must be evacuated. (3.) Convenient Applications to cure the *Ulcer* it felf.

Q. How is the first performed?

A. By purging the Body well from thick Choler and Bilis Atra, (if the Ulcer is of a livid Colour) with Elect. Lenitiv. Pulv. Sanct. Rhab. Sena, Polypod. Hermodact. &c.

Q. How is the second performed?

A. By mixing 3j. Præcipit. Rub. washed in Rose-Water with Unguent. Popul. or Mundificativum Paracelsi 3j.

Q. How long is this Medicine to be used?

A. Till the Ulcer spread no more, and look red. Q. How is the third Intention performed, which is

to cure the Ulcer it felf?

A. Give inwardly a Decoction of Sarsaparilla, China, Guaiacum, &c. and if you perceive the Brims of the Uker to erode, further and further, touch them with Ol. Vitrioli, or Ol. Sulph. Then endeavour to fill up the Cavity by Medicines which strongly dry (yet are not corrofive;) as Ceruff. & Tutiæ Præparat. Cort. Pin. cum Unguent. Nicotian. & Liniment. Arcæi, &c. Or R. Unguent. Enulat. cum Mercur. 3j. Flor. Sulphur. 3j. misce; which is commended by fome: and then cicatrize with Unguent. Defice. Rub. &c. A Simple Herpes is cured much like an Eryfipelas, by Evacuation and Contemperation of Choler; an Herpes Miliaris is to be treated much like the Itch, with Catharticks and Alterants. As for local Medicines in a Simple Herpes, Succ. Poligoni, Equiset. Plantag. Litharg. Auri, Ceruss. Ol. Rof. Unguent. Alb. Diapomphol. Nutrit. Popul. &c. But an Herpes Miliaris requires more powerful Exficcants, and even Mercurials; which may be feen at large in Wiseman, in the Chapter of Herpes, &c. CHAP.



CHAP. XX.

Of a PHAGEDÆNA and a Nome.

Q. W HAT is a Phagedænic Ulcer?

A. It is a deep Ulcer with tumify'd Lips, corroding the adjacent Parts, produced of a bilious Humour, inclin'd to Melancholy, not so thick as that which is the Cause of Cancers, nor so thin as that which causes an Erysipelas or Herpes.

Q. Why is it called Phagedænic?

A. φαγέδαινα is a Greek Name, derived from φάγω, (in Latin Edo) to eat; fo that a Phagedænic Ulcer, is Ulcus Exedens, or an Eating Ulcer.

Q. What is a Nome?

A. Nour, or Ulcus Depascens; in English, is a feeding consuming Ulcer, without any Tumor in the Brims, but endued with Malignity and Putrefaction, and Corruption of the Part.

Q. How are these Ulcers to be cured?

A. Let the Diet be such as affords a good Juice, and is of easy Digestion, and make a reasonable Evacuation by Catharticks; and keep them to a Diet-Drink of Sarsa, &c. join'd with some vulnerary Herbs. Dress the tumify'd Brims of the Phagedanic Ulcer with Unguent. Alb. and Popul. mix'd; and the Ulcer itself with Unguent. Nicotian. 3j. Mercur. Pracipitat. Rub. 3ij. misce. But as for a Nome, or Ulcus Depascens, it requires stronger Medicines than a Phagedana; as Vitr. Alb. Croc. Mart. Calc. Viv. Alum. ust. Plumb. ust. Æs ust. &c.

Q. How long are these Medicines to be used?

A. Till the Erosion stops, and the Ulcerlooks

clean and red, then incarn and cicatrize, as has been taught.

D4 CHAP.

66 Of a Cancer, and a Cancerous Ulcer.

CHAP. XXI.

Of a CANCER, and a cancerous ULCER.

Q. W HAT is a Cancerous Tumor?

A. It is a Tumor proceeding (as Authors fay) of Bilis Atra, hard, unequal, of a leaden Colour, hot, painful, having full Veins appearing in the Parts adjoining, which imitate the Feet of a Crab, from whence it receives its Name.

Q. What is the Cause of this Ulcer?

A. A very hot Distemperature of the Liver, or Spleen, ill Diet, bad Wines, a hot Air, and sometimes a violent external Force, Grief, &c.

Q. What Parts doth it mostly invade?

A. Altho' it is possible for it to breed in all Parts of the Body, yet it generally seizes either the Breasts or Matrix of Women, and the Lips and Nose of the Face.

Q. Why does it rather seize those Parts than others?

A. The Breasts more readily receive this Humour, because of their loose and glandulous Substance; and a long Retention of the Menstrua, (whereby the Blood is, as it were, burned) is the

reason of its seizing the Matrix.

Q. What Rrognosticks are to be made in this Case?

A. (1.) No Cancer is of easy Cure. (2.) When it is come to a remarkable Bigness, it is to be extirpated. (3.) If the Patient be weak, and the Tumer very stubborn, (and more especially if it adhere to the Ribs,) tamper not with it, but content your self with Lenients; for if you use either Knife or Cautery to such, you hasten their End, and bring a Reproach upon yourself. (4.) Never

Of a Cancer, and a Cancerous Ulcer. 67 be too large in your Promises of the Cure, where Extirpation cannot be made, especially if it be ulcerate.

Q. What is your Dietetick Method in the Cure?
A. Let them forbear all strong Wines, Cabbage,

A. Let them forbear all strong Wines, Cabbage, Cheese, and salt Flesh or Fish; as also all things that thicken the Blood, and instance the Humours; let their Diet be cooling and moistening; Violet-Leaves, Spinage, Purssain, Sorrel boiled; also Mutton, Veal, Lamb, Pullets, poached Eggs, and Fishes that swim in clear Rivers; and let their Drink be a small Ale, &c.

Q. What is your Pharmaceutick Means?

A: Bleed in the Arm, if it be in the Breast; and in the Saphena, if it be in the Matrix; and let it be done at the full Moon: also give Elect. Lenitiv. in Whey, or Rhab. Sen. Pulv. Sanctus, &c. once a Week.

Q. What is the Chirurgical or Topical Method?

A. In a Cancer there is a double Poison, a Putre-factive and Corrosive: Now, if you use such Medicines as suppurate other Tumors, you will bring Putrefaction; and, if you apply Corrosives, you affist the Poison, and increase the Malady.

Q. What are then best ?

A. Those which repel and digest; but shun all Emplaisters, for they pen up the Humour by shutting the Pores: You may use Succ. Nigel, Unguent. Popul. Favin. Lupinor. Secale, Succ. Symphit. Equiset. Plantag. Millefol. Tapsus barbat. &c. made into Cataplasms. Also Limac. & Succ. Heder. Terrest. is accounted a good Cataplasm; but if the Tumor be very painful, apply Rad. Cicut. Farin. Secal. & Ol. Myrtillor. mixt into a Cataplasm. Also, & Ol. Cydonior. Ziv. Acet. Sambuc. Zij. and mix them well in a leaden Mortar; with either of which dress the Tumor twice a Day: But some use only a Plate

D 5

68 Of a Cancer, and a Cancerous Ulcer.

of Lead, rubb'd over with Argent. Viv. and so apply it to the Part. And thus far of a cancerous Tumor not ulcerate.

Q. What is a Cancerous Ulcer?

A. It is known by these Signs, (viz.) thick Lips, a stinking Smell, the Lips are turned outward, greenish, and fretted, yielding a Sanies of a black or dark yellow Colour, and is extremely painful.

Q. What Differences are there found in these Ul-

cers ?

A. Two; (viz.) Lupus, and Noli me tangere; the former is in the Thigh or Leg, and the latter in the Face: but in any other part of the Body it carries its own proper Name of a Cancer only: There are some Cheats that go about, to gull charitable People out of their Money, by pretending to have a Lupus, or Wolf alive in their Breasts, that they are forced daily to feed with raw Beef, &c. Beware of such Impostors, and expose them, for such a thing is altogether impossible, and unbecoming a Surgeon so much as to name, unless by way of Contempt.

Q. What Method must be used in the Cure?

A. The same that was prescribed in a cancerous Tumor, (as to Phlebotomy, Diet and Purging.) To the Ulcer apply Cloths wet in Succ. Solan. vel. Nicotian. Angl. or in Aq. Sperm. Ranar. in which is distolv'd Sacc. Saturni; especially if the Cancer be not ulcerate. Also Plumb. uft. & lot. Tutiæ, Ol. Ros. Ceræ, Succ. Solan. &c. beat up in a leaden Mortar, to the Consistence of an Unguent, and applied, &c.

Q. Will these Medicines serve in all cancerous

Ulcers without Distinction?

A. No; they only ferve to allay the raging Pain in large and deep Cancers, and to put a stop to their Increase;

Of a Cancer, and a Cancerous Ulcer. 69 Increase; but if it be only superficial, it may be eat out with sublimed Arsenick, as some Men have taught: But this is a very dangerous Attempt; and we never met with any such Application that succeeded, and shall hardly ever make the Experiment.

Q. But suppose this Grief happens in the Matrix? A. Then use this Medicament, K. Stercor. Bubul. Biv. Herb. Rob. Plantag. Semperviv. Hyosciam. Por. tulac. Lastuc. ana Mj. Canc. fluv. No. xij. Contund. omnia; & distil. in Alemb. Plumb. Imbuet. Camphora, & injiciatur frequent.

Q. How is a Noli me tangere cured?

A. R. Vitriol. Biss. Auripigment. Sulph. Viv. and 3iv. Sal. Gem. 3iij. cum Aceto fiat pasta in olla terres probe lutata, siccetur in surno. This, by divers Applications, will consume this, and other Cancers: And then digest, deterge, and incarn, and then cicatrize with this; R. Mel Dispumat. 3ij. Sevi. Hirein. Limat. Chalyb. ana 3iss. Litharg. Aur. 3ij. misce.

Q. But if, notwithstanding all your Endeavours,

it still increases, what must be done?

A. Warn the Patient of the present Danger, and propose Extirpation.

Q. What ought to be look'd to, in order to have it

Succeed well?

A. (1.) That the Patient be strong, and of a good Habit, and not too old, nor the Menstrua ceased. (2.) That the Cancer be loose, and the Axilla free from painful Glands. (3.) That it be extirpated in the Spring or Autumn, &c.

Q. How is it to be performed?

A. Let the Patient be placed in a clear Light, and held fleady, and dexteroufly pass two Needles made for that Purpose, thro' the Breast crossways, over which pass Tape from one to t'other,

for

or Hold for your Fingers; by which pull it to you with one Hand, and, with the other, nimbly make Incision, and cut it off as close to the Ribs as possible, that no Parts of it remain behind. But if any cancerous Gland should remain, be sure to have actual Cauteries of different Sizes ready hot by you, to consume it, and to stop the Bleeding; or otherwise apply, for restraining the Hemorrhage, Dorfels dipt in scalding-hot Ol, Terebinth. per fe; or Buttons dipt in the same; first arm'd with the common Restrictive, and so laid to the Mouths of the Arteries; and overall, Pledgets armed with the same: then after good Boulstering and Rolling, conveniently place the Patient in Bed, and at Night give her an Anodyne Draught. But the most certain and decent way is, to make a Ligature on the Ends of the Arteries, and then you are fafe from a Hemorrhage, beyond all dif-Then the fecond or third Day open it, digeft, deterge, incarn, and cicatrize, as in other Amputations; keep the Body foluble, and take care to prevent a Fever: Also now make one or more Fontanels; for if any evil Quality remains in the Humours, the Ulcer will hardly cicatrize.

Q. But if notwithstanding, the Lips do grow cal-

Jous, what will you do?

A. Then timely attempt their Eradication, by actual Cautery, lest you repent it when it is too late.

Q. But is there no other Way, but this frightful

A. Some pretend to do it by Causticks, but it is fo often to be repeated, before it can have its Effect, that the Remedy proves worse than the Difeafe,



CHAP XXII.

Of a Discoloured, and Varicous ULCER.

Q. WHAT are the unnatural Colours which possess an Ulcer?

A. They are in Number four; (viz.) red, yel-

low, livid, and black.

Q. What is the Cause of these ?

A. Either Blood offending in Quantity or Quality, or too hot, or from too hard Bandage, or by furfeiting, by folemn Evacuations suppress'd, and by things apply'd too cooling, &c.

Q. How will you remove the red Colour?

A. The Diet must be cooling and moistening, let his Rollers be dipt in Acet. Rosar. and Aq. Font. and not rolled too slack; avoid violent Motion, provoke natural Purgation, if suppress'd: Blood is to be drawn, if it abound, and the Part is to be scarrified, &c. if needful.

Q. How is the livid Colour to be removed?

A. If it proceed from Cold, which you may easily perceive, make use of such Medicines as are able to reduce the Part to its natural Heat, made ex Rad. Rapi, Raphani, Pulv. Caryoph. Ol. LiniVet. q. s. & siat Cataplasm. And, if need be, use Scarrifications, Cupping-Glasses, &c.

Q. How is the black Colour to be removed ?

A. Scarrify the Parts deep, and foment them well, and treat it as the beginning of a Mortification; and if either of these Accidents happen to an Ulcer, let them be treated as here directed, till the Part comes to its natural Colour; and then go forward, as has been taught in the Cure of compound Ulcers.

Q. What

72 Of a Discolour'd, and Varicous Ulcer.

Q. What is a Varix ?

A. It is a Dilatation of a Vein, causing a Tumefaction of it, with Windings and Tortuosity, arising in some part of the Body.

Q. Why is it called a Varix?

A. From the Likeness it bears to the Protuberances, which are seen in Trees above the Bark, called Varices.

Q. Whence are they caused?

A. Either from Blood impregnated with Spirits, or from melancholy Blood, or thro' Excess of Labour, or immoderate Exercise.

Q. How are they to be cured ?

A. By discharging the Body of the offending Humours, and by manual Operation; shun gross Meats; open a Vein, and give Lenitives, mixed with such as purge gross Humours, as, Lenitiv. Elect. Pulv. Sanct. &c.

A. By Ustion, by Excision, and by taking up the

Vin.

Q. How are thefe done?

A. As to the first two, they are so painful and terrible, that scarcely any Man would undergo the Operation; therefore I shall speak nothing of them: but as for taking up the Vein, it is thus done; Take up the Varix, both above and below, in both which Places make Deligation, and open the Vein between them, that the Blood may be discharged out of it, &c. and wait the Separation of the Ligatures, and heal as in other Wounds.





CHAP. XXIII.

Of ULCERS of the bairy Scalp.

Q. WHAT is an Achor?

A. It is an ulcerous Tumor of the Skin of the Head, red and Dug-like, having very fmall Holes, from whence proceeds a thin Sanies.

Q. What is a Favus?

A. It is the fame, yet wherein the Holes are larger, and which contains an Humour refembling Honey, from whence it is denominated.

Q. From whence is it caused?

A. The primitive Causes are, corrupt Nourishment and Contagion, and by Contagt and frequent Conversation; the material Cause, is a sharp, fretting, viscous Humour; and the conjunct Cause, is the same Humour impasted in the Skin of the Head.

Q. What are the Signs ?

A. In both Achor and Favus, there is an itching and a Tumor with Holes, and the often both are attended with Lice, yet it is proper for a Favus to have Scales.

Q. What are your Prognofticks?

A. If they continue long, they leave behind them a Baldness of the Part; but those Children who have it, are freed from the Falling Sickness; and if it be hereditary, it is very hardly cured at all.

Q. What are the Means of Cure?

A. A convenient Diet, Phlebotomy, Purgation, and proper Applications to the Ulcers.

Q. What

Q. What Diet is most proper?

A. It must be cooling, moistening, and affording a laudable Juice; but all strong, sweet Wines, sharp, salt Meats, hard Eggs, Fishes living in muddy Water, and Purslain, are to be shunn'd. As for Phlebotomy, it must be prescribed and repeated; if there is a Plothora, or if much corrupt Blood is settled in the Vessels of the Head, purge with Confect. Hamech. Syr. Ros. solut. cum Agarico, Pulv. Sanct. Troch. Alhandal, &c. Purge with some of these once a Week: Also Sternutatories may be used, if it be thought necessary.

Q. What are proper external Applications?

A. They must be such as are aftringent and repelling, which we discoursed of in the Doctrine of Tumors. Butyr. Recent. Anung. Porcin. Sulph. Viv. Helleb. alb. & nigr. Calc. Viv. Merc. Crud. Litharg. Gallar. Alum. Acet. Ol. Vet. Pic. Liquid. &c. Pull out the Hairs, then soment with a Decoction of Vin. Rub. Cort. Granat. Bacc. Myrtillor. Fol. Ros. Rub. &c. and then apply your Unguents.

Q. Are these Medicines to be used indifferently to all?

A. No: But to Children apply the milder fort; and in all, proportion things according to Art.

Q. But suppose the Ulcers be very moist, and apt to be inflamed by the Application of unctuous Medi-

cines?

A. Then instead of Axung. or Butyr. Rec.make up your Medicines with Oxymel Simplex, and abstersive Powders, and Farin. Hordei, and over them a Cap of Ivy-Leaves sewed together.

Q. What is that Ulcerof the Head which is called

Tinea?

A. It is a crusty fretting Ulcer of the Skin of the Head, without very much Moisture, corrupting the Roots of the Hair, and sending from the Skin. Skin a dry stinking Filth, which is commonly called a Scall'd Head.

Q. From whence is it caused?

A. Either from things not natural, or corrupt Milk, or Contagion, or else is hereditary.

Q. What are the Signs of this Disease?

A. It is known by its dry crusty Scales, which are sometimes yellow, sometimes Ash-colour'd, or greenish; but most commonly white, and never altogether black.

Q. What are the Presages of the Disease?

A. (1.) It is very hard of Cure. (2.) If the Skin be hard, and many Scales appear, and the Hair falls away, it is of most difficult Cure. (3.) When it is cured, it often leaves behind it Baldness. (4.) The older they are, the harder of Cure.

Q. What Indications offer themselves in the Cure?
A. (1.) To remove the Cause: And, (2.) to cure the Ulcer by proper Means: The first is done by rightly ordering the Non-naturals, by Catharticks and Phlebotomy, as was directed in an Achor and Favus; only remember to add mercurial Preparations to your Catharticks, and repeat Phlebotomy at least once a Quarter, or oftner if it be necessary.

Q. How is the Ulcer to be cured?

A. Take care to avoid meddling with tender Children, until they are able to bear sharp Medicines; but in the Interim, that something may be done, you may apply to the Part, a Liniment ex Ol. Ovor. Croc. Martis & C. C. and lay over it a Cap of Ivy-Leaves; but apply Repercussives, for the Humour is so thick that it cannot be repell'd.

Q. How will you proceed?

A. First, Procure the Separation of the Scale: Secondly, Pull out the Hairs by the Roots; and Thirdly, Heal the Ulcer.

Q. How will you cause the Scales to fall off?

A. By Unguents made ex Ol. Ped. Bov. and Mucilages ex Rad. Altheæ, Sem. Lini & Fænugr. &c. And I have known where, green Ellicampane-Roots, boil'd tender, pith'd and pulp'd through a Sieve, and mixed with a fourth part of Hog's-Lard, have been used with great Success; being daily anointed on the Part.

Q. How will you then cure the Ulcers?

A. Either with Unguent. Enulat. cum Merc. and over it Empl. de Ranis cum Merc. Or R Succ. Fumar. Oxylapath. Acet. ana ziv. Ol. Vet. fbj. Coq. omn. ad Succ. Confump. & adde Pulv. fequent. R Helleb. alb. & nigr. Sulph. Viv. Calc. Viv. Alum. Gallar. ana zss. Virid. Æris zij. Pic. Liquid. ziss. Ceræ q. f. fiat Ceratum, and apply it. And, while this is doing, purge once a Week; which is all we need discourse of, with relation to this Distemper, being in every Chapter confined to Brevity; our Design being only to give the young Arcist a rational Idea of his Art, without a Multitude of Words.



CHAP. XXIV.

Of ULCERS of the Ears.

Q. W HAT is the Cause of Ulcers in the Ears?

A. A Blow, a Fall, or a sharp Humour sent from the Brain.

Q. What are the Prognosticks in this Case?

A. (1.) If the Cure be neglected, Deafness enfues. (2.) If greater Plenty of Matter comes forth, than it is reasonable to suppose the Ears can produce, then you may be sure, that the greatest part of it comes from the Brain. (3.) If before the Matter comes out, the Patient seels great Pain and Pulsation, it certainly proceeds from a Phlegmon bred there.

Q. How will you proceed in the Cure?

A. Before any thing be applied, purge the Head with Pil. Coch. maj. or Pil. de Aggregativ. Diagrid. &c. (2.) Let the Applications be neither too hot, nor too cold. (3.) Let them be all liquid. (4.) After dreffing, let the Patient for some time lie upon the well Side, the diseased Ear being stopped with Wooll. (5.) Avoid all oily and fat Medicines.

Q. What local Medicines will you use?

A. Crocus Martis, boil'd strongly in Aceto: Also Fol. Alchimil. Sigil. Solomon. Plantag. Equiset. &c. boiled and made into a Syrup; which will be the better by adding Cort. & Flor. Granat. Sumach. Bacc. Myrtillor. & Fol. Ros. Rub.

Q. How will you know if the Ulcer have Worms

in it?

A. By their Motion they will cause intolerable Itching.

Q. What will you dress with in such a Case?

A. With a strong Decoction, ex Cerevif. non lupulat. & Fol. Nicotian.

Q. What must be done if a Fungus rifes, and fills

up the Cavity of the Ear?

A. (1.) Purge the Head. (2.) Confume the Fungus by a careful Application of Realgar. alb. Auripigment. & Calc. Viv. ana p. a. (3.) Inject into the Ear, Vin. Alb. Mel. Rofar. & Ægyptiac. (4.) To heal it, inject some vulnerary Syrup in Aq. Plantag. or Rof. Rub.

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CHAP XXV.

Of an OPHTHALMIA.

Q. W HAT is an Ophthalmia Vera? A. An Inflammation of the Tunica Adnata of the Eye, attended with Tumor, Pain, Heat, flowing of Tears, the Eye-lid is turned up and somewhat ulcerate, &c.

Q. What are its Causes?

A. Eeither a Blow, a Fall, or sharp Humours, or Oil, Smoak and Duft.

Q. What are the Differences of an Ophthalmia?

A. They are either Mild or Malignant; the Mild is when only the Adnata is inflamed; the Malignant, when it feizes it with the other Symptoms before-mentioned.

Q. Why should Oil cause this Disease?

A. Because it cleaves fast to the Tunicles, stops the Pores, and fo keeps in the Heat and inflames the Eye; and the Heat, being pent in, burns when

it cannot breathe through, and inflames the Humours, and so causeth an Ophthalmia.

Q. What are the Prognosticks?

A. That coming from an external Cause, is more casely cured than that of an internal one. If a Pain in the Head is joined with it, and it continue long, Blindness may be seared. (3.) If the Humour be thick, it will not continue long. (4.) If the Matter be very much and thin, it is like to continue long.

Q. What are the Intentions of Cure ?

A. A proper Diet, Phlebotomy, Purgation, Collyriums, and a Seton, or Fontanel.

Q. What particular Rules are to be observed?

A. He must be sparing in Meat and Drink, abflain from Venery, and keep the Body soluble; let his Sleep be moderate, and the Room kept dark; let the Objects he looks on be green: if his Hair be on, cut it off; and, if Strength will permit, bleed him; or if not, apply Cupping-Glasses to his Shoulders; and, to stay the Fluxion, apply a strong Defensative to the Forehead and Temples.

Q. Of what Qualities must your local Medicines

be ?

A. Something aftringent, cooling and anodyne; as, Aq. Alb. Ovi, Mucilag. Sem. Cydonior. Fænugrec. &c. drawn with Aq. Plantag. Or, Aq. Rosar. cum Minim. Croc. Also, Troch. Alb. Rhas. sine Opio, dissolv. in Aq. Sperm. Ran. Or, Aq. Euphragiæ cum Pulv. Tutiæ, &c.

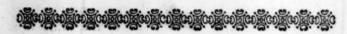
Q. But suppose this does not do the Work?

A. Then apply Cupping-Glaffes, and make a Seton in the Neck, and purge and bleed, as has been directed.

Q. What is the Tunica Adnata?

A. It is the outmost Tunicle of the Eye; it springs from the Pericranium, and is spread over

all the White of the Eye, above the Sclerotica, reaching as far as the Iris; by which the Eye is kept firmly within its Orbit, and from whence it is called Conjunctiva: It is of most exquisite Sense, and has many capillary Veins and Arteries creeping through it, which appear very plain in an Ophthalmia, or Inflammation of this Tunicle.



CHAP. XXVI.

Of the rest of the ULCERS of the Eye.

Q. WE have said enough with relation to an Ophthalmia; inform me now what other Ulcers the Eye is subject to: And first name the mild ones?

A. They are in number seven, four superficial ones, and three deeper: The first is called in Greek axxis, Achlys, in Latin Caligo, in English a Mist; it is a very superficial Ulcer, of a bluish Colour, poffeffing the greatest part of the Black of the Eve. The fecond is called " per in Greek. in Latin Nubecula, in English a Cloud; this is deeper, but narrower, and whiter than Caligo. The third is called agyspor; it is an Ulcer growing about the Iris; possessing part of the White and part of the Black of the Eye; without the Iris, it looks red; and within it, white. The fourth Superficial Ulcer is called imixavua; this makes the Cornea rugged, and of an Ash-colour, resembling a Lock of Wooll. And now the fifth Ulcer, (which is the first of the deeper fort) is called Bibgion in Greek, and Fossula in Latin; it is a hollow, narrow Ulcer of the Cornea without Filth; it is like a Puncture, or Dint. The fixth is called zoshama; the

the same with Fossula, only it is something wider, and not so deep. The last Ulcer of the Cornea is called igravya, inustio; it is an impure and crusty Ulcer, thro' which the Humours of the Eye sometimes come out, and then it is called Procidentia: Of which there are sour kinds; as, (1.) If it sall out but very little, it is called Caput Musca, and Formicalis, the Head of a Fly, or Pismire. (2.) If it sall down yet more, and equal a Grape in Bigness, it is called Uvea, or Uvatio. (3.) If it salls down yet more, and hangs down like a little Apple, it is called Malum, or the Apple-like Rupture. (4.) But if it salled Clavus, or the Naillike Rupture.

Q. How are thefe to be cured?

A. These four last are altogether incurable; only the Apple-like and Grape-like Rupture, if the Roots are small, may by Ligature be taken

off, but the Sight is not to be restored.

Q. How will you proceed in the Cure of the rest? A. Proceed as directed in the Cure of an Ophthalmia; let your Catharticks be gentle, and avoid any thing that may cause Vomiting; and as to local Medicines in Superficial Ulcers of the Cornea, let them be fuch as these: Succ. Ruta, Chelidon. Euphrag. Sacc. Cand. Aloes, Sarcocol. Fel. Capon. Croc. Metallor. Camphor. Tutia, &c. But if the Ulcers be of the deeper fort, then use such as these: Plumb. Uft. Antimon. Æs Uft. Gum Arabic. Croc. Angl. Opium; in Aq. Rof. vel Plant. &c. And dress the Ulcer four times a Day, and purge once a Week; and a right use of the Non-naturals must be enjoined. Let the Drink be small Beer, the Food of easy Digestion; avoid baked and fried Meats, and all ftrong Spices, Mustard, Garlick, Onions, Peafe and Beans; and, instead of common Salt to your Meat, use this, R. Flor. Euphrag. Sem. Fænicul. ana 3j. Cinam. & Mac. ana 3j.

Sal. Com. 3j. misce, fiat pulvis.

Q. What Ulcers of the Eye do you call Malignant?

A. There are in Number five, three contagious, and two not contagious; (viz.) Carbunculofa, Venerea, Morbillofa, Nome, and Cancrofa. The Nome fometimes begins at the Corner of the Eye, fometimes at the White, and fometimes at the Cornea; this Ulcer is dangerous, and feldom cured without loss of Sight. Ulcus Cancrofus has a thin darkish Humour proceeding from it, is very painful, and incurable; all that can be done, is to give the Patient fome Ease by Anodyne Cataplasms and Collyriums, and a strict Couse of Living.

Q. How will you conjecture when the Small-Pox

is like to produce Ulcers in the Eye?

A. If there was an Inflammation in the Eyes, before any Pocks appeared in the Body; if he feels a great Pain in his Eyes, and cannot open the Lids.

Q. What is to be applied in fuch a Case?

A. Mucilages of Sem. Cydonior. Lini, Fænugrec. &c. made with Aq. Rosar. or Lac Mulieb. with Saffron in it.

Q. But suppose these Ulcers proceed from a Vene-

real Cause?

A. First cure the Pox, and these Ulcers will vanish; however, as something in the mean time must be done, & Vin. alb. thj. Aq. Plantag. 3vj. Auripigment. 3ij. Virid. Æris 3j. Aloes, Myrrh. and 9j. stat Collyrium, &c.

Q. But if through Neglett, or Ignorance, the Eyelid grows to the Conjunctiva or Cornea, what must

be done?

A. This is called in Latin, Coalitus: If the Lid cleaves to the Black, the Sight is altogether hindered;

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hindered; but if to the White, it is only impaired: and fometimes they cleave to neither, but to one another. And now as to the Cure; if the Eve-lid cleave to the Cornea, against the Apple of the Eye, the Sight never will be perfect again. But in attempting the Cure, proceed thus; Place the Patient in a convenient Posture, and lift up the Eye-lid which cleaves to the Membranes, and put between it and the Membrane, in that Part which is free, a fit Instrument, blunt on the back part, and very sharp before, and the Point armed; then artificially and dextroufly separate the Parts united, taking care not to hurt the Eye: Then apply a Collyrium, ex Aq. Plant. & Troch. alb. Rhaf. and keep the Parts afunder with small Dorfels of Lint, put between the Parts disjoined, and wet Boulsters in the Collyrium, and apply over all, and roll him up : Dress it twice a Day, and continue this Method till it is whole.



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CHAP XXVII.

Of an OZÆNA.

Q. TAT HAT is an Ozæna?

A. It is a malignant Ulcer in the Nostrils, about the Holes of the Ethmoides, caused of sharp Humours eroding the Parts, attended with a stinking Smell, and sometimes with Crusts.

Q. What are the Prognosticks in an Ozæna?

A. (r.) They are all hard of Cure. (2.) That which is hid, is of a harder Cure than that which appears.

Q. Why are they hard of Cure?

A. (1.) Because the Brain sends plenty of corrupt Humours. (2.) Because the Part is of a moist Nature.

Q. How is such an Ulcer to be cured?

A. By observing a good Diet, as in other Ulcers has been taught, and by Phlebotomy and Purging; and lastly, by fit Applications.

Q. What think you of Mercurial Preparations?

A. They are most effectual in the Cure of this Ulcer, whether it be simply of it self, or a Symptom of the Pox.

Q. Well; but what are your local Medicines?

A. I will first endeavour the Removal of the Crust, which is fixed in the fore-part of the Os Ethmoides, or Os Cribrisorme; which I do thus: I turn the Patient's Face upwards, and his Head bent back; then with a Feather, I drop in warm, Morning and Evening, Ol. Amygd. Dulc. & Sperm. Ceti mix'd, and let him at the same time draw in his Breath, till he seels the Taste of it in his Mouth;

Mouth; and this Method I continue every Day, till the Crust is fost; which, when I find it is so. I then, (after dropping in the Oil) at every Dreffing, cause him to snuff some sternutory Powder up his Nofe, which, by caufing him to fneeze, will force out some of the loose Crust: Which Method I daily use till all is discharged; then, instead of the Oil, use a Composition made of some of these Medicaments, Aq. Plantag. Fol. Querci, Alum. Balauft. Spir. Vitriol. Mel. Rof. Syr. Rof. Sicc. &c. Which must be injected warm twice a Day; and after Injection, that the Part may not foon become dry, apply some fit Unguent: as Unguent. Tutice alb. Camph. ana 36s. Mercur. Dulcis, 31. mifce, &c. Which Method, if rightly followed, will answer your Desires, without applying the actual Cautery.

Q. What is the Os Ethmoides, where you fay the

Seat of an Ozæna is?

I d

n is A. It is fometimes called Ethmoides, and sometimes Os Cribriforme, indifferently: It is the second common Bone of the Scull and upper Jaw: It is seated in the middle Basis of the Forehead, at the top of the Nostrils, and join'd by a Suture to the Os Frontis; it, like a Sieve, hath many Holes, by which the Filaments of the Olfactory Nerves pass into the Nostrils, &c.



CHAP. XXVIII.

Of ULCERS of the Mouth.

Q. WHAT is to be done when the wrinkled Skin which covers the Os Palati is ulcerate?

A. Scarce any thing is more certain and speedy, than this common Medicine of Mel. Rosar. & Alum. ust. ana q. s. Or, Aq. Plantag. & Mel. Rosar. cum Ol. Sulph. q. s. And afterwards heal with Syr. è Ros. Sicc. & Spir. Vit. q. v.

Q. But suppose the Os Palati is bare ?

A. Then to the former Syrups add fome Pulv. Sarcocol. Irid. Mastich. Far. Hord. &c.

Q. What must be done if a Piece of the Os Palati

fall away?

A. It it is but a small Piece, you must keep the Brims of the Ulcer raw, and use the Incarnatives here prescribed, and Union may be procured; but if a large Piece come away, all Hopes of Unition are gone; and all that can be done, is, to cause the Patient to wear a Plate of Silver to supply the Defect.

Q. If the Tongue prove ulcerate, what will you

apply?

A. If it be mild, a Decoction of Hord. Gallic. Althew, Liquorit. &c. cum Syr. Violar. may serve; but if the Ulcers be malignant, as sometimes this Part is seized with a Phagedana and Nome, be sure to administer in Time Merc. Dulcis, in sit Doses, and often repeated, and apply'd to the Ulcer also: And as to the rest of the Cure, it may be gathered from what is already delivered in the Chapter of Phagedana, &c.

Q. What

Q. What is your Method in Ulcers of the Uvula?

A. If they be mild, those things prescribed in Ulcers of the Tongue may suffice; but if the Ulcer be fretting, it is either to be cured by Excision, or by sit Applications; (viz.) make a Gargle, ex Fol. Plantag. Veronic. Sigil. Solomon. Scord. & Origan. In which dissolve Mel. Anglic. q. v. And after gargling, touch the Ulcer with Mel. Rosar. Alam. ust. & Egyptiac. warm; and do this twice a Day till it be well.

Q. But if you find it proves rebellious, and yields

to no Applications, how must it be cut off?

A. First purge the Body; and if the Uvula be small about the Root, it will be so much the better (nay, indeed it will not be safe without it;) then with Scissors, or other sit Instrument, cut it off, and cauterize the Part with a red-hot Uvula Spoon, or other sit Instrument, to restrain the Flux of Blood, &c.

Q If the Tonfillæ, or Almonds, be ulcerate,

how are they to be cured?

A. Make an Electuary, ex Rad. Irid. Florent. Cent. min. Myrrh. & Mel. dispumat. and be often applying it. And if the Throat be ulcerate beyond the Uvula, R. Aq. Limat. Ferri & Plantag. ana this. Flor. Rof. Rub. Balauft. ana 3vj. Alum. Rup. 3ij. Digerant. in Arena per Hor. xxiv. & Coletur pro usu: And give Mercur. Dulc. inwardly, as you And if they are hard, and much fee Occasion. tumified, and in a long time yield to no Applications; but are troublesome, and apt to choak the Patient; the readiest way is Excision: which is not difficult to do, with the Probe-Sciffors, if Ligature be made on the Part; and the Hemorrhage may be readily stopp'd with a Gargarism of Oxicrate, or by applying gently a Cautery-Button.

CHAP. XXIX.

Of WOUNDS.

Q. WHAT is a Wound?

A. It is properly a Solution of Continuity in any Part of the Body, caused by an external cutting Instrument; it is in Greek called

τεαυμα, in Latin Vulnus.

Q. How many Intentions are there in the Cure of a Wound?

A. Five; viz. (1.) To draw forth any extraneous Body. (2.) To bring the Lips together. (3.) To retain the fame. (4.) Preferving the Tone of the Part. (5.) To correct Accidents that have already feized on the Part, and to prevent others.

Q. What do you term Extraneous Bodies?

A. Shot, Hair, Rags, Dirt, Gravel, Splinters, or whatever is foreign to the Part wounded; which are to be extracted with that Variety of Instruments, that the Nature of the Body and Position of the Member requires.

Q. Is this a general Rule without Exception?

A. No: For where you see the Wound is of itself mortal, and where it cannot be done but with great Pain and Difficulty, and where the Wound may be cured without it, or leaden Bullets lodged deep in the great Joints, in these Cases Extraction is not to be attempted.

Q. Which way are extraneous Bodies to be ex-

tracted ?

A. By the same way they went in, except there is more fear of a Flux of Blood, or cutting a Nerve,

Nerve, by the Extraction that way than on the contrary Part; or that the Figure of the extraneous Body is fuch, that it will not so easily pass back the same way it went, as it will through the Part opposite.

Q. How is bleeding in a Wound to be stopped?

A. (1.) By restringent Medicines, as Pulv. Galeni, Bole, &c. mixed with Posca. (2.) By Deligation of the Vessel. (3.) By Injection of astringent Medicines, when we cannot come at the Vessel. (4.) By the actual or potential Cautery. (5.) By good Compress and Bandage.

Q. How many forts of Union are there in a Wound?
A. Two; (viz.) Symphifis, and Syssarcosis.

Q. What is Symphifis ?

A. It is the Union of Parts disjoined, no middle Substance coming between; and this is called healing, by the first Intention.

Q. What is Sysfarcosis?

A. It is the Union of Parts disjoined by a middle Substance.

Q. How are the Parts disjoined, brought together, and retain'd so.

A. By stitching the Wound, and by good Ban-

dage.

Q. How is the Tone of the Part to be preserved?

A. (1.) By a right ordering of the Non-naturals. (2.) The Medicines may not exceed in any Quality; (viz.) either hot, cold, moift, or dry. (3.) Bandage must be uniform, and neither too hard nor too slack. (4.) Take care, by a spare Diet, Lenitives, and Phlebotomy, to keep the Body from a Fever. (5.) Let them abstain from Venery,

Q. What are reckon'd Accidents in a Wound?

A. Pain, Inflammation, Convultion, and Mor-

tification.

Q. How are these corrected?

A. As for Pain, if it proceeds from any external Cause, as hard Bandage, extraneous Bodies, &c. it is to be remedied by loosening the one, and extracting the other; but if from neither of these, then Anodynes are to be apply'd, such as have been already prescribed. Inflammations are remedied by Phlebotomy, Lenitives, and cooling Applications. In Convulsions, recourse is to be had to Unguent. Martiat. Ol. Succini, Juniperi, Spir. Castorei, Salviæ, Lavendulæ, Ol. Rutæ, Lumbricor. Vulpin, &c. Some apply'd to the Part, some given at the Mouth, some by Clysters, and some smelt to. And a Mortification is remedied by Scarrification, Fomentation, Ol. Terebinth. scalding hot, Spir. Vin. Ægyptiacum, Mercur. Præcipit. Rub. &c.

Q. What fort of Wounds are to be cured by Sym-

philis, or Agglutination?

A. All, whose Lips can conveniently be brought and kept together, by flitching and rolling, and where there is no great Contusion, nor loss of Substance.

Q. What is to be observed when you come to stitch a

Wound?

A. (1.) Let it be done gently. (2.) Let the Parts be equally brought together. (3.) If the Brims be stiff, by reason of long being undress'd, let them be somented with Hydrelæum. (4.) No Dorsel nor Pledget must be put between the Parts.

Q. What is Hydrelæum?

A. Oil and Water mixed, according to discre-

Q. How many forts of Stitching are therein common use?

A. Two; (viz.) Lequeatio, or dry Stitching, and Sutura, or Stitching with a Needle.

Q. What is dry Stitching?

A. It is when Pieces of Cloth, cut jagged, or Saw-like, being placed on each fide of the Wound, are stuck on, by a fit Medicine, and so the difjoined Parts are brought together; and the Pieces of Cloth being sewed to each other over the Wound, keep it in a uniting Posture, without passing a Needle through the Flesh or Skin.

Q. In what Cases do you apply the dry Stitch?

A. (1.) If we cannot come conveniently to roll the wounded Part, as in all transverse Wounds. (2.) In Wounds of the Face, to avoid a Scar. (3.) If the Patient will not admit of Stitching.

Q. How is the Cloth to be prepared?

A. (1.) The two Pieces must exactly answer to one another. (2.) Let them be either doubled or hemm'd. (3.) Let them be strong, that they yield not to the Stitch.

Q. By what Means are these Cloths made to stick?

A. Dissolve Ichthyocolla in Aceto, & coq. ad Consist.

Empl. Or Medicines may be formed ex Farin.

Volat. Mastich. Gipsi, Gum. Tragacanth & Arabic.

Bitumen, Colophon, Albumen Ovi, &c. These spread upon the Cloths, must be apply'd and suffer'd to dry on, before they be stitched, that they may not give way, and let the Stitches be about an Inch asunder. You may compound your Matter for the dry Stitch thus: R. Pulv. Bol. Ver. & Mastich and 3j. Thuris pinguid. 3iss. Taccamahac.

3ij. Mix them well with a hot Pestle and Mortar, and spread it, and let it lie on some time for it to stick well, before you stitch the Cloth.

Q. How many ways are there of Stitching with a

Needle in Wounds?

A. First, the Glovers Stitch, which is used in the wounding Guts, &c. The second kind is performed by taking divers Stitches, as far distant, as the Nature of the Wound requires, and at every

Stitch to cut the Thread. The third is called Gastroraphia; this is made use of when the Peritoneum is divided by a large Wound, (and shall be discoursed of, when we come to treat of Wounds of that Part.) The fourth is, when the Needle is left in the Wound, being passed thro' both Parts, and the Lips brought close together, and the Thread passed about both Parts, as when a Taylor fastens it on his Sleeve: And this fort of Stitch is of use in Hare-Lips, and in Wounds of the Aspera Arteria, or Windpipe; but if you fee fit, the Ends of the Needle may be snipped off.

Q. Of what use is Stitching in Wounds?

A. To keep the Lips of them close, in order to their speedy healing, and to restrain their bleeding.

Q. What is to be observed in Stitching?

A. (1.) Beware of Nerves. (2.) In long Wounds begin from the Ends, in short ones in the Middle. (3.) Let the Stitches be diffant the breadth of a Finger. (4.) In deep Wounds, let the Stitches be deep; in superficial ones, the contrary. (5.) In Wounds made according to the length of the Member, flitching is not so necessary, because rolling will do the Work near as well.

Q. What is Fasciatio, or Rolling?

A. It is when we labour to keep the Lips of the Wound together by Slips of Linen-Cloth, cut in a due length and breadth, and made of Cloth only half-worn, and of an indifferent fineness.

Q. How long is it generally before Wounds that are

fitched are agglutinated?

A. Commonly in two, three, or four Days, if they are well managed; and then the Stitches may be cut, and the Threads drawn forth.

Q. How many kinds of Rolling are commonly in as the Nature of the Wound requirer, and be 5314

A. Four; (viz.) Incarnativa, Retentiva, Expulsiva, and Equans; which are better understood by Practice, than described by Words.

Q. In what Cases are we to reject the Cure of Wounds by Agglutination, and heal them by Con-

carnation?

A. (1.) If there is loss of Substance. (2.) In great Wounds of the Joints, and when the Ligaments and great Tendon of the Heel are cut in sunder. (3.) When we look for the Scaling of a Bone, or the Separation of a Piece of a Ligament or Tendon. (4.) When the Jugular Veins and Soporal Arteries are divided in Wounds of the Neck.

Q. How is Incarnation performed?

A. It has been already taught in the Doctrine of Ulcers, to which you are to have recourse.

CHAP. XXX.

Of the Gun-Shot Wounds.

A R E Gun Shot Wounds poisonous?

A. No: For both the Shot and most of the Ingredients of the Powder are used, both internally and externally, for the Cure of several Diseases, with Success.

Q. What are the Symptoms of a Gun-Shot Wound?
A. Contusion, Pain, Inflammation, Convulsion,
Heat and Change of Colour, being sometimes of a
blue or Violet-Colour, sometimes the Wound is

black, and the Parts adjacent livid, &c.

Q. What are the Prognosticks in these Wounds?

A. If only a slessy Part be wounded, and the Constitution good, it is of easy Cure; but if the Constitution be bad, with Fracture of the Bone,

or

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or Laceration of the Nerves, Tendons, and Ligaments, the Cure is difficult, and at the best they are harder of Cure than other Wounds.

Q. Why?

A. (1.) By reason of the Contusion which always attends them. (2.) They more slowly digest than others, because the natural Heat is much abated, and the Spirits dissipated, by reason of the Contusion.

Q. How many Intentions are there in curing thefe

Wounds ?

A. (1.) To draw out all extraneous Bodies, as Bullets, Pieces of Garment, contused Flesh, Shivers of Bones, &c. And, (2.) To apply convenient Medicines.

Q. What is your Method of Cure?

A. Extraneous Bodies being extracted, if the Wound bleeds much, dress it up for the present with Restrictives and good Bandage, and at the next dreffing haften to convert the contused Flesh into Pus; which may be done by arming your Tents with a Liniment compos'd ex Tereb. Ven. Mel. Myrrh. Croc. Angl. Vitel. Ovi. Ol. Catellorum, &c. with which arm your Tents and Pledgets; and over the Wound (to ease Pain, and cherish the natural Heat, and help forward Digestion) apply a Cataplasm ex Mic. Pan. Rad. Alther, Flor. Chamæmel, Melilot. Hyperic. Abfinth. Farin. Hordei & Fabarum, & adde Ol. Rof. &c. Then embrocate the Part with Ol. Hyperic. & Rosar. all round; and to the Parts above, to stop the Flux of Humours, apply a Defensative. Dress it twice a Day, if there be Occasion; but in that your Judgment must direct you. Keep the Body soluble by Lenitives or Glifters, and daily give fome vulnerary Drink, &c. composed ex Rad. Symphit. Alchimil. Salvia, Verban. Scordii, Hyperic. Valerian. Plantag. Confolid.

Consolid. Agrimon. Fol. Ros. Rub. Lign. Lentisc. &c. Or Powders and Electuaries ex Syr. Symphit. Mummia, Bol. Ver. Macis, Sperma Ceti, &c.

Q. What must be done if a Gangreen be feared?

A. Then use Ol. Terebinth. Gum Mastich, Sal. Armon. Virid. Eris, Campbor. and Præcipit. Rub. also.

Q. We will suppose the Wound now well digested,

how must it be mundified?

A. With Mundificativ. ex Apio, or Paracelfi; to which (if the Wound be foul) add a little Unguent. Egyptiac, and if the Sinus be very deep, inject a Decoction, made of some of the vulnerary Herbs, in Wine, and add some Mel Anglican. &c. then incarn and cicatrize, as in other Wounds.

Q. What Cautions are to be us'd in Dreffing thefe

Wounds?

A. (1.) Use no Escharotic Medicines. (2.) Take care to shorten and lessen the Tents as the Wound incarns. (3.) If the Contusion be large about the Parts, they are to be scarrified. (4.) If the Parts are burned, they are to be dressed with such Medicines as profit in Burnings. (5.) Forbear restringent Medicines, because they keep in putrid Vapours, which may cause a Gangreen.

Q. But suppose the Bone be fractured?

A. Then it is to be reduced, and the Wound dreffed with Tereb. Venet. Ol. Terebinth. Hyperic. & Catellor. cum Euphorb. Tutia, &c. which will both digest the Wound, and help to scale the Bone: but if there is a Comminution of the Bone, (or a Fracture) of the Joint; if you would not be counted ignorant nor carelessin your Art, immediately amputate the Limb.

Q. How, or with what Instruments, are Bullets

to be extracted ?

A. If they are lodged in a Bone, the Terebellum is the only Instrument; but if in a sleshy Part,

the Ducks-Bills, Crows-Bills, Cranes-Bills, small and long Forceps, are more proper; and the Patient must be placed as near as may be in the same Posture he was in when the Wound was inflicted, if the Bullet cannot easily be found otherwise.

Q. Suppose I find it at a contrary Part of the Bo-

dy, and so cannot extract it?

A. Then, if you feel it lying superficially, cut upon it and take it out.

Q. But Suppose I cannot by any Means find it, will

it kill the Patient?

Many Men have carried leaden Bullets lodged in their Flesh for many Years, without any manifest Prejudice: however, place the Patient in the Posture he was in when he received the Wound, and try what you can do; for it is certainly best to extract it, if you can.



CHAP. XXXI.

Of Wounds of the Head.

Q. W HAT is principally to be consider'd in Wounds of the Head?

A. The most common are these; (1.) To avert the Humour from the wounded Part. (2.) The general Prognosticks. (3.) To prescribe sit Medicines to assuage Pain and Instammation. (4.) Good Rolling.

Q. How is the Humour to be averted?

A. By Purging, Bleeding, and right ordering of the fix Non-naturals.

Q. When is Phlebotomy to be administred?

A. (1:) If the Wound did not sufficiently bleed at first. (2.) If it be large, and the Patient strong.

(3.) If an Inflammation has seized the Part, or a Fever the Patient.

Q. In what Cafes are you to purge, in Wounds of the Head?

A. (1.) If there be Head-Ach, or Lumpishness.
(2.) If there be Tumor or Inflammation. (3.) If the Body be Gacochymical.

Q. What is mostly to be shunn'd in these Wounds?

A. (1.) All Wine, till fourteen Days are over.
(2.) If there is a Fracture, neither Flesh nor Fish is to be allow'd for the first seven Days. (3.) Vernery, above all things, during the whole Cure.

Q. What are the Prognosticks in Wounds of the Head?

A. (1.) No Wounds of the Head are to be flighted; for fometimes, altho' there is no Fracture, fearful Accidents follow. (2.) It is more hard, or easy, according to the Climate or Season of the Year. (3.) Where there is a Pox, or an ill Habit of Body, it is most difficult. (4.) Contused Wounds of the Head are more difficult than incifed Wounds. (5.) Wounds in the Fore-part of the Head, are more dangerous than those of the Hinder-part. (6.) Wounds of the Temples are most dangerous. (7.) Wounds on the Sutures are attended with the same. (8.) If no Fever, Convulsion, Raving, Palfy, Doating, &c. feize the Patient, and good Quitter appear, and the Body be foluble, they are all good Signs, & è contra. (9.) Callus is procured in forty or fifty Days. (10.) If a Swelling does fuddenly vanish, it is an ill Sign, unless some Evacuation has gone before.

Q. Why are contused Wounds more difficult than

incifed ones?

A. Because they require greater Suppuration.

Q. Why are Wounds of the Fore part, of more dangerous Gure than those of the Hinder-part?

A. (1.) Because more Brain is contain'd in this Part. (2.) The containing Parts are thinner. (3.) Because more noxious Humours may be gathered there, by reason of the multitude of Cells.

Q. Why are Wounds of the Temples so very dan-

gerous? .: (31)

A. (1.) Because the continual Motion of the lower Jaw doth hinder Union. (2.) Because the Branches of the Jugular Veins and Soporal Arteries are distributed there. (3.) Because of the temporal Muscle, on which the Motion of the lower Jaw depends, and which, being cut thwart, draws the Face awry, and impedes the Motion of the lower Jaw.

Q. Why are Wounds on the Sutures dangerous?

A. (1.) Because the Scull is there parted, and fo Matter may fall down and hurt the Brain. (2.) Because of the Ligaments which pass through, from the Meninges to the Pericranium.

Q. How is the Head to be rolled?

A. It is impossible to express it so intelligibly, as that a Stranger should by the Directions exactly perform it; let it be done equally, and with many Circumvolutions, according as the Case requires; the Rollers ought to be made of soft Linen, half worn, of about three Inches broad, or less; and as long as is needful: which Time and Experience will make familiar, and easy to you.



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C H A P. XXXII.

Of Wounds of the Parts placed above the Scull.

Q. T F a Contusion of the hairy Scalp, without a Wound, present itself, how ought it to be treated?

A. (1.) Immediately bleed. (2.) Use repelling Medicines, which fee in the Doctrine of Tumors.

Q. But after the Pain is gone, a Tumor should remain?

A. Then use Discutients.

Q. But if notwithstanding all you can do, the Tu-

mor does not vanish, what must be done?

A. Make Incision, and if the Cranium be not foul, conclude the Cure by moderate Compression, and drying and mundifying Medicines, fuch as Syr. è Rof. Sic. de Abfinth. Terebinth. Aloes, Myrrh. &c. And if the Scull be foul, first smooth the Bone with a Raspatory, and endeavour to procure a thin Scale, by Application of Pulv. Myrrh. Gentian. Aristol. Rot. Sarcocol. Mastich. &c. then incarn and cicatrize, as has been taught in other Cases.

Q. How is a transverse Wound of the temporal

Muscle to be dressed?

A. Bring the Lips close together, by stitching the Skin; then dress the Wound with Liniment. Arcai warm, and apply over all Empl. Paracelf. a little malaxed with Ol. Hyperic. cum Gum. or some vulnerary Balfam, &c.

Q. But I will suppose the temporal Muscle wounded.

according to its Length?

100 Of Wounds of the Head in general.

A. First stop the Bleeding, and stitch the Lips of the Wound, and dress, as I said but now; then lay his Head inclining on a Pillow.

Q. But how will you stop the Bleeding?

A. If it will not be restrained by ordinary Means, then pass a Needle through the musculous Flesh into the Wound, and from thence to the outward Part, compassing the great Vessels with a double Thread; between which, and the Vessels, put a little Dorsel of Lint, to prevent cutting asunder the Parts, and to avoid Pain; then make Ligation, and dress him up.

Q. Suppose the Wound in any other Part above the

Scull?

A. Then it is to be cured either by Agglutina-

Q. How by Agglutination?

A. First stitch it up uniform, then apply a Pledget dipt in Albumin. Ovi; the next Day dress with Liniment. Arcai warm; and if it yield much Matter, dress it twice a Day, till it is well; which is commonly in four or six Days.

Q. How by Incarnation?

A. If the Bone is bare, apply the Cephalick Powder last mentioned, and over that dry Lint; then fill the Wound with Pledgets dipt in Liniment. Arcai warm, and so conclude the Cure: but the way of Stitching is far better.

Q. How are Humours to be averted from a wounded

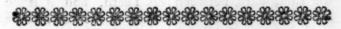
Head?

A. To prevent Pain and Inflammation, apply a Cataplasm, ex Farin. Hord. boiled in Posca, or Vin. Rub. & Ol. Rosar. or one made ex Medull. Panis, Lac. Recent. Unguent. Popul. Pulv. Croci, &c. which (the Head being shaved, and the Wound artificially dress) is to be apply'd over all.

Q. Suppose a Contusion join'd to a Wound?

A. First

A. First wash the Wound with Tinet. Myrrh. or Spir. Vini; and if no loss of Substance, nor the Contusion very great, stitch it, and dress with Liniment. Arcæi; (and if it be deep, keep a Tent in the depending Part, until it yields laudable Matter, and then take it out) and apply an Emplaister, or Cataplasm all over.



CHAP. XXXIII.

Of a Fracture of the Scull.

Q.W HAT are the Signs of a Fracture in Cranio ?

A. They are either, (1.) apparent to Sense, or (2.) found out by a reasonable Conjecture. Those of the first fort are manifest to the Eye, or found out by the Finger or Probe; those of the second fort, are a Singing of the Ears, Swooning, Slumbering, Giddiness, an issuing of Blood from the Nose, Ears, and Mouth, Vomiting, Raving; the Patient often puts his Hand to the Part; there is fometimes Convulsions, Pally of one Side, Faltering of Speech, Memory impaired, Dulness of Judgment, &c.

Q. Do those Symptoms always attend these sort of

Fractures ?

dangerous:

A. No; for I have known a Patient with a Fracture thro' both the Tables, with the Bone presi'd in upon the Dura Mater, (without wounding it) that had none of these Symptoms, except bleeding at the Ears: And another that had both a Fracture and large Fiffure, that had no Symptoms of either, except Convulsions for a few Hours only. , more the or the order suore and Q. But suppose none of these Symptoms offer, and yet you suspect a Fracture; by what other Method

will you fatisfy your felf?

A. If the Hair be cut in funder, and stick up in the Wound, or if the Patient upon violently chewing of Paper on both Sides of his Jaws, feels a Crushing; or if he holds a Thread with a Knot at the End, hard between his Teeth, and if it be fuddenly jerked, he feels a Pain in the Part, there is then room for Suspicion. Tho' I had once a * Patient, who had all the Symptoms of fuch a Fracture, at first; and some of them (at times) for fix Weeks together; yet having no Wound, nor Tumor, whereby to guide me fo as to make Incicision, like an Artist; by Cephalicks, Phlebotomy, Gliffers, Vesicatories, Cupping, and proper Topicks, the Patient recovered, and remains still well, for ought I know: But I never heard of the like; and instance this, to caution you not to be too hasty in making Incision, lest you do it, and find neither Fracture, Fissure, nor Depression; and fo be justly condemn'd, for Rashness and want of Judgment.

Q. What are your Prognosticks in these Fractures?

A. (1.) Pronounce not all Danger past, till an hundred Days be over. (2.) Every Fracture in the Scull is dangerous. (3.) If a Fever follows, if the Brims of the Wound grow slat at second Dressing, and do not swell, there is danger. (4.) If the Wound grows dry, or is black, the Tongue salters, Memory sails, the Eyes grow dim, a weak Pulse, and Palsy or Convulsion, Death is at hand; but if none of these Signs, then hope the best. (5.) Wounds with a Fracture of the Sinciput, or Fore-part of the Head, are more dangerous than those of the Occiput, or Hinderpart. (6.) Fractures in the Temple Bones are most dangerous:

Of the Section of the hairy Scalp, &c. 103 dangerous: And (7.) so are those on the Sutures.

Q. Why are Fractures on the Sinciput worse than

those of the Occiput?

A. (1.) Because these are more thin than the other. (2.) Because more Brain is there contain'd. (3.) Because in the Fore-part, there are several Vaultings, by which the Brain may be easily wounded. (4.) Because of the thinness of the Skin in the Fore-part: And (5.) because there are many and large Veins, which may cause a large Hemorrhage.

Q. Why are Fractures in the Temple-Bones for

dangerous?

A. (1.) Because these Bones are thin and weak.
(2.) Because there are Veins, Arteries, and Nerves.
(3.) Because the Pericranium doth clip the temporal Muscle, and the Muscle hath in the middle a Tendon of very great Sense.

Q. Why are Fractures on the Sutures dangerous?

A. The Reason is already given, where we discoursed of Wounds of the Parts above the Scull.



CHAP. XXXIV.

Of the Section of the hairy Scalp, and opening the Scull.

Q. N what Parts of the Head may Section be

Safely made?

A. In all Parts, except the Sutures, and on the temporal Muscles; not on the Sutures, because of the exquisite Sense of those Filaments which tie the Meninges to the Pericranium, and pass thro' the Sutures; and not on the temporal Muscles, for Reasons already given.

Q. Of

104 Of the Section of the bairy Scalp, &c.

A. It is generally done in the Form of a St. Andrew's Cross; but it is to be observed, that you be sure to make no transverse Incision a little above the Eye-lid, lest the frontal Muscle being transversely divided, an incurable Palsy of the Eye-lid does ensue; wherefore in those Places the Incision is to be made, either streight, or oblique, but not transverse.

Q. When Incision is made, what is to be done next

A. Begin from the Points of the Incision, and separate the *Pericranium* from the *Cranium*, either with your Nails or *Spatula*, so far as that you can see the whole Fracture plainly; then to the Bone apply dry Lint, and fill up the Incision with Dorsels, arm'd with a *Restrictive*, to stay the bleeding, and keep the Lips as and over all a Boulster: then roll it up, and open it not, till twenty-four Hours are past, if you can help it.

Q. Why is the Scull to be opened?

A. (1.) That Pieces of the Weapon may be removed. (2.) That Pieces of the Scull, which are separated from the whole, may be taken out. (3.) That the depressed Piece, which is thrust down upon, and offends the Meninges, may be taken away, or reduced to its Place. (4.) For removal of Quitter and coagulated Blood.

Q. How much of the Bone is to be taken away?

A. Either all the fractur'd Bone, or part of it.

Q. In what Cafes is all the fractur'd Bone to be

taken away?

A. (1.) If it be on the Crown, where no depending Vent can be given for discharge of Matter. (2.) All the shivered Bones are to be taken out in any place. (3.) So much is to be taken away, as covering the Dura Mater, becomes black.

O. What is to be consider'd, when only part of the Bone is to be removed?

A. That

Of the Section of the hairy Scalp, &c. 105

A. That it be done on a depending Part, and that the Trafine, or Trepan, take in Part of the found, and part of the fractur'd Bone.

Q. Is there no Exception against this Rule, in

opening it in a depending Part?

A. Yes; for if the Brain appear, the Dura and Pia Mater being wounded, it must be shunn'd; because the Brain being sluid, would be apt to fall down to the depending Part.

Q. What are the chief Instruments with which

you open the Scull?

A. They are Raspatories, Levatories, Gimblets

called Terebella, and the Trepan, or Trafine.

Q. What is to be observed in the use of Raspatories?

A. Set the Patient in a good Light, stop his Ears, and hold his Head steady, and cover the Brims of the Wound with Pieces of Linen Cloth; then first begin with the broadest, then the less broad, and last of all the narrowest, being often moistened with Oil, or Vinegar and Water, if Blood appear; then dress it up as you do after

Q. In what Cases are Raspatories to be used?

A. In Fissures, or Chinks, and in a Sedes, when

the Trepan, of which we shall discourse by and by.

the Print of the Weapon is narrow.

Q. What is the Gimblet or Terebellum, and its

use ?

A. It is fuch an Instrument as Coopers use to raise up the Heads of Casks; its Point is made to screw; its use is to arise up a depressed Piece of Scull, by first making a small Hole with the Pin of the Trepan, and then screwing in this Instrument, and raising up the Bone.

Q. What is the Use of the Levator?

A. To raise up a depress'd Bone, after trafining. Q. In what Parts must the Trafine not be applied?

106 Of the Section of the bairy Scalp, &c.

A. Not wholly upon the Fracture, nor on a Suture, nor to the Places a little above the Eye-brows, nor to the Temples, nor to the lower part of the Scull, (if the Meninges be wounded) nor lastly, to the Sinciput of Children not above seven Years old.

Q. What is to be observed in applying this Instru-

ment ?

A. (1.) Take out the Pin when you are come to the fecond Table. (2.) Take it often out, and moisten it with Oil. (3.) Take care to cut all Parts equally, so as that you may not be through on one side, when you are not half through on the other. (4.) When it begins to shake, take it out with the Levator. (5.) If any Roughness remain, smooth it.

Q. How is it then to be ordered?

A. First apply a Piece of Taffaty or Sarsnet, (with a Piece of fine Silk fasten'd to it, lest it slip between the Cranium and Dura Mater, and so you lose it) on the Dura Mater, dipt in Mel. Rosar. and Ol. Rosar. or Mel. Ros. & Spir. Vini, or Ol. Ros. & Resin.; to the Bone dry Lint, and to the Lips a Digestive; then roll the Head up, and lay the Patient in a quiet Place to rest, free from Noise.

Q. In how long time will the Bone scale?

A. Some fay in forty, others in fifty Days; but indeed, no certain time can be fet for it.

Q. Suppose a Depression of the Scull, without a

Wound, in a Child, without any ill Symptom?

A. If the Blood fluctuate up and down under the Skin, then apply to the Part a foft double Linen-Cloth, moisten'd in Ol. Rosar. Alb. Ovi & Aceto; which keep on twenty four Hours, but first remember to shave away the Hair: and after this, until the eleventh Day, apply a Cataplasm, ex Fol. Ros. Rub. Bacc. Myrt. Farin. Hord. & Fabar. Fol. Absinth. Sem. Cymini, &c. & coq. in Vin. Rub. & adde

Of the Cure of Fractures of the Scull. 107 adde Ol. Rof. & Mel. Anglican. Apply this twice a Day warm; and from the eleventh to the twentieth Day, only apply Diapalma sostened with Ol. Lilior.

Q. But if a Fracture in Cranio happen to a Child

with ill Symptoms?

A. Then it is necessary that the Scull be opened; which being done, they are to be treated as Men are, only more tenderly.

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CHAP XXXV.

Of the Cure of Fractures of the Scull appearing in the wounded Part.

Q. WHAT is a Simple Fracture of the Scull?

A. It is when there is no Wound, and when the Fracture is of one only kind.

Q. How many Sorts of these Simple Fractures are

there ?

A. Three; viz. (1.) Rima, or Fissura, a Chink, or Cleft. (2.) Contusio, a Contusion of the Scull. (3.) Sedes, when the Print of the wounding Instrument is left in the Scull.

Q. Does a Fiffure always pass through both Tables

of the Scull?

A. No: fometimes only through the first; and then it is to be so far dilated, to give a Discharge to the contused Blood; but if through both Tables, the Dilation is to be accordingly.

Q. But if you distrust that there is a Fissure, yet if it is so small that you cannot see it; how will you

find it out ?

A. If upon the Patient's holding his Breath, and stretching out his Breast, a thin Humour, or bloody

bloody Sanies, do iffue out, it is a certain Sign; or if you apply Ink to the Part most suspicious, made thin with Vinegar to make it penetrate, and the next Dreffing dry the Scull with a Sponge, and if you see any Print of the Ink to remain in the Scull, you may judge a Fissure to be there.

Q. Are Fiffures to have a Trepan apply'd upon

them?

A: No; unless it has been some time received, and bad Symptoms attend it; but otherwise it is to be dilated with Raspatories, and cured as when the Trafine is applied.

Q. How is a Sedes to be cured?

A. If it pass through both Tables, and no Splinters of Bone prick the Meninges, and the Weapon has made sufficient way for the Discharge of Matter, no surther Apertion is to be made, but it is to be dressed as when the Trepan is applied; but if any Splinters of the Bone do offend, or the Apertion is too narrow, a surther Opening must be made; and if it only pass through the first Table, the Bone is to be smoothed by Raspatories, and dressed with Liniment. Arcai; and it often falls out, where the Patient is of a good Constitution, that the Bone does not some Drops of Spir. C. C. be added, and apply'd to the Bone.

Q. How is a Contusion of the Scull to be cured?

A. The contused Part is to be taken away with

Raspatories, and then to be healed as in the latter Part of the Cure of a Sedes is directed.

Q. What is a Compound Fracture of the Scull?

A. When to the Solution of Unity there is joined, either Loss of Substance, or some part is removed from its own place.

Q. How many forts are there of it?

Of the Cure of Fractures of the Scull. 109

A. Three; (viz.) Depressio, a Depression; Concameratio, a Vaulting; or Excisio, a part of the Scull wholly cut off.

Q. If in a Depression, one part of the Bone cleave to the whole, and the other not, what must be done?

A. Apply the Trepan as near to the fractured part as you can, and then reduce the depressed Bone to its place; or else remove it, as you see most necessary, taking great Care not to hurt the Meninges.

Q. What is Concameratio, or Vaulting?

A. It is when the Scull, being pierced with a sharp-pointed Weapon, and with Violence pulled up again, it sometimes heaves up one Table, and sometimes both, and leaves a Hollowness or Vault underneath.

Q. How is it to be cured?

A. If it only pass thro' the first Table, smooth it, and proceed, as has been directed; but if it pass thro' both Tables, apply the Trasine on the most depending Part, and proceed as before directed.

Q. How is Excisio to be cured?

A. If the Piece cut away, cleave to the Cutis Musculosa, and the Wound go no deeper than the first Table, the Piece is to be separated from the Flesh, then the Bone is to be rasped, and cured as a Sedes: But if both Tables be cut off, and stick to the Cutis Musculosa, first wash the Wound with Spir. Vin. and reduce the Pieces to their place, and stitch the Wound exactly.

Q. What is a Diffolution of a Suture?

A. It is, when those Parts of the Cranium, which are united by the Suture gape, and are separated by some violent Blow or Fall.

Q. What is a Collision of a Suture?

110 Of the Cure of Fractures of the Scull.

before) and of the Ligament which passed thro' it, from the Meninges to the Pericranium, which caufeth fearful Symptoms, and which sometimes obligeth us to apply the Trasine on one side the Suture, &c.

Q. Suppose a Fracture under the Temporal Mus-

cle?

A. If it be with a Puncture, or transverse Wound, it is very dangerous; but if it be long-ways, it is to be dilated by Dorsels of Sponge; and if there be a Fissure, by Raspatories: but if there be a great Fracture or Depression, then make a triangular Incision a little above the Fracture, shunning the temporal Muscle, and the Trepan is to be applied, and the Shivers of Bone to be taken away, and the rest reduced to their Place; then dress as before directed.

Q. But how must the Sanies be expell'd out of the

Wound ?

A. At every Dreffing cause the Patient to bend down his Head, and to stop his Mouth and Nose, and breathe strongly, to expel it from the Wound; then inject some mundifying Decoction, to wash out all Filth, and dress up secundum artem.

Q. I have heard it confidently reported, and by fome Men affirm'd vehemently, that have had Fractures in Granio, that the Surgeon who cured them, put in a Piece of Gold, where the Bone came out, and healed the Wound over it: Pray how can this be?

A. The Patient that believed so, was a Fool; and that Surgeon that pretended to do so, was a Knave; and put the Piece of Gold in his Pocket, and not in the Patient's Scull: The thing is impossible, and more sit for the Creed of an old Woman, than a Surgeon. Not but I believe such a thing has been often pretended; and most Coun-

Of a CONTRA-FISSURA. 111

try People really think so; but it is all a Trick, and Piece of Deceit, unbecoming an honest Surgeon: the Wound not being capable of healing with any extraneous Body in it; for if it was, nothing seems so sit, as the Piece of Scull that was taken out by the Trasine; but it is all a Bite.

CHAP. XXXVI.

Of a CONTRA-FISSURA.

A. It is when the Cranium is stricken upon one Part, and fractur'd in another; and this either in the self-same Bone, or in divers Bone, as when the right Bregma is struck, and the less by the same Blow is cless; and sometimes when the Blow is upon the upper Table that remains whole, and the lower Table is fissured.

Q. What is the Reason of this?

A. This happens to those whose Sutures are very obscure and close, in whom, when the Air which is within the Scull, is strongly moved by a Blow, and on every side is driven by the Force of it, it is entirely carried through the Substance of the Brain to the opposite Part, which when it meets with the Scull, which by reason of its firmness cannot yield, gives way to a Fracture; as a Glass, which sometimes being knocked on one side, is crack'd on the other by the same Blow.

Q. How is this kind of Fracture to be found out?

A. If no Fissure appear in the Wound, and yet there are the Symptoms of a Fracture, then you have reason to take a View of the opposite Part; or if you find a Tumor in the opposite Part, or

3 that

that the Patient often puts his Hand to it, you may suspect a Fracture or Fissure there: But if no Tumor appears to guide you, shave the Head, and apply to the opposite Part this Emplaister, R. Pic. Naval. & Cer. ana ziij. Terebinth. zj. Mastich. & Irid. pulv. ana zij. f. Empl. Spread it upon Leather and apply it, and let it lie twenty-four Hours; and if when you take it away, any part of the Skin appears more moist than the rest, you may suspect that the Hurt is there.

Q. Suppose the second Table to be fractur'd, the

first remaining whole?

A. Then the Trepan is to be applied, to make way for coagulated Blood.

Q. When the Contra-Fiffura is found, what is to

be done ?

A. Dilate the Chink with Raspatories, and proceed as before directed.

Q. Suppose a Contusion on the Head without a

Wound?

A. The Symptoms will inform you, if there be a Fracture; which if there be, you must make Incision to come at it; but if there be not, shave off the Hair, and apply a Cataplasm, ex Far. Hord. Acet. Vin. Rub. pukv. Ros. Rub. Bacc. Myrtill. Mastic. Ol. Ros. &c. Then open a Vein, and the next Morning give a gentle Cathartick; also drop into the Ears, and moisten the Passages of the Nose with Ol. Amygd. Dulc. About the seventh Day apply Empl. de Betonica, malaxed with Ol. Ros. And now, if fearful Symptoms begin to appear, let Incision be no longer delay'd.

Q. How will you judge the Dura Mater to be hurt, when you have no Wound, nor apparent Fracture?

A. When there is a Bleeding at the Ears, a Stupidity, and a pricking Pain in the Part when the Patient blows his Nose, &c.



CHAP. XXXVII.

Of Wounds in the Meninges and Brain.

HOW many Inconveniences may happen to the Dura Mater?

A. Five; (viz.) A Wound, Pain, Inflammation, Apostemation, and Discolouration.

Q. Suppose an immoderate Flux of Blood happen

in a Wound there ?

A. If the Weapon has not made way enough to come to it, it must be made; and apply Pulv. Galeni, to restrain the Flux.

Q. How is Pain to be affuaged here?

A. Use no Narcotick, nor common unctuous mollifying Medicines, but apply Ol. Rosar. & Mel. Rosar. artificially mixed.

Q. Do these fort of Wounds admit of Stitching?

A. No; they are to be cured by Incarnation.

Q. Suppose an Inflammation happen in a Wound on

the Dura Mater ?

A. Bleed, and use a slender Diet, then soment with a Decoction ex Althea, Sem. Lin. & Fænugrec. Fol. Violar. &c. and apply Ol. Rosar. and if occasion be, dilate the Scull.

Q. How is it to be known if Quittor be contained

in an Apostemation there?

A. By the extraordinary Whiteness of some part of it.

Q. How is it to be opened?

A. Very warily, for fear of offending the Brain; then apply Syr. & Ros. sicc. or Mel. Rosar.

Q. From whence does Discolouration of that part

proceed?

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114 Of Wounds in the Meninges, &c.

A. From the Violence of the Blow; from coagulated Blood; from the Coldness of the Air; by Application of improper Medicines, and from Putrefraction.

Q. Suppose it proceeds from the Violence of the Blow?

A. Then apply Ol. & Mel. Rosar. or Ol. Over.

cum Spir. Vin. & Pulv. Croc. q. f.

Q. But what if it proceed from coagulated Blood?

A. Then drefs it with a Composition ex Spir.

Vin. Mel. Croc. Sarcocol. &c. boiled to Blackness.

Q. Suppose bad Applications have been the Cause?

A. Then Medicines of a contrary Quality are to be applied.

Q. How will you know if Blackness proceeds from

Putrefaction?

A. By the strong Smell of the Sanies.

Q. What is then to be used?

A. Such as these artificially compounded and mixt, Spir. Vin. Syr. Absinth. Mel. Ros. Ægyptiac. Sarcocol. Myrrh. Aloes, Vin. alb. &c.

Q. What are mortal Signs in this Cafe?

A. If the Tumor and Putrefaction increases, notwithstanding all that can be done; if the Eyes bunch out, the Patient is restless and raving, you may believe that Death is at hand.

Q. How is Bleeding, and also Wounds to be cured

in the Pia Mater ?

A. As those of the Dura Mater.

Q. How many Griefs may happen to the Brain?

A. A Wound, Apostemation, Putrefaction, Sideration, Concussion, Fungus and Tumor, by reason of Flatuosity.

Q. What are the Signs of a wounded Brain?

A. A Fever, Vomiting of Choler, Loss of Speech, Slumbering, Stupidity, Dimness of Sight, Giddiness, Foaming, Convulsion; or if the Meninges are both divided, and a Substance like Fat comes out, which will neither swim above the Water, nor melt with the Fire, but is thick, round, and of a marrowy Substance; it is a part of the Brain.

Q. Are such Wounds curable or not?

A. Some pretend that they have been so happy as to effect a Cure; and fince it has been done, we are to do our best Endeavours, and leave the Success to God: but at the best they are very dangerous.

Q. Way ?

A. (1.) By reason of the Nobleness of the Part, and the necessary Uses of the Functions of it. (2.) By reason of the Motion of the Brain. (3.) The Moistness. (4.) The Coldness. (5.) The Confent of the Nerves which spring from thence. And (6.) Because Medicines do not easily pass to the wounded Brain.

Q. How are Wounds of the Brain to be cured, if curable?

A. First soment with a Decoction ex Hyperic. Betonic, Calamint, Chamam, Aneth, Euphrag, &c. and then (till the seventh Day) use Ol. Tereb. & Ol. Rof.

Q. Suppose it be of a livid Colour?

A. Then dress it with Spir. Vin. Ol. Ros. & Mel. Rofar. &c.

Q. Suppose it yields a laudable Matter?

A. Then use only Syr. Rof. sicc. cum Aq. Vita. or Spir. Vini.

Q. What Symptoms remain commonly after Wounds of the Brain are cured?

A. Faltering of Speech, and Palfy of the Arms.

Q. How is a Putrefaction and Sideration to be

discerned or remedied?

A. They are not to be discovered but by opening the Scull, and that most commonly when the Patient is dead.

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Q. What think you of a Concussion, or violent

Commotion of the Brain?

A. It is to be dressed as a Fracture of the Scull without a Wound, open a Vein, and inject sharp Glisters; but beware of applying astringent Medicines, because they keep in the fuliginous Vapours. Sometimes a Concussion is attended with the Symptoms of a Fracture, or Fissure; and sometimes it brings Death, if not managed with the utmost Skill and Care; and sometimes even that is all too little to save Life.

Q. What will you do if a Fungus arises?

A. Apply Medicines which strongly dry, and mildly fret, as Pulv. Sabin. Hermodast. ust. Pulv. Turpeth. &c. But nothing so effectual and safe, as a Powder made of common brown Oker two parts, and Powder of Savine one part, mixt and strewed on; it is a Nonsuch, in this case. If it grow up very large above the Cranium, then bind it with a Ligature to procure its fall; but beware of using Catheretical Means.

Q. How is a Giddiness caused in Wounds of the

Brain?

A. It is caused from the Circulation and Cirtumvolution of the Animal Spirits.

Q. How comes Dimness of the Sight and Slumbering?

A. From Diffipation of the Animal Spirits.

Q. How is Vomiting caused here?

A. The Brain being troubled, the Affection is communicated by the Nerves of the fixth Conjugation, which proceeding from the Brain, are dispersed through the whole Body of the Stomach, which is drawn inward, pursued and turn'd upwards, from whence those things which are contained in the Capacity of it, are rejected by vomiting; and Choler being most light, is first vomited up.

Q. From whence proceeds a Torpor or Stupidity?

A. From

A. From ill Vapours which assault the Brain, and dissipate the Animal Spirits.

Q. From whence comes Convulsion?

A. From corrupt Vapours, which nip the be-

Q. What is to be done in such a Case?

A. Anoint the Neck and Spinalis Medulla with a Composition ex Fol. Rut. Marub. Rorismar. Ebuli, Salviæ, Paralys. Bacc. Lauri, Flor. Cham. Melilot. Hyper. macer. in Vin. alb. Dein coq. cum Ol. Lumbricor. Terebinth. Axung. Anseris & Human. &c. ad Consumpt. Vini; tum, Colat. & adde Tereb. Ven. Aq. Vitæ & Cera, &c.



CHAP XXXVIII.

Of Wounds happening to the Instruments of the Senses.

Q. W HY are Wounds of the Eye difficult of Cure?

A. (1.) Because of the Excellency of the Part itself. (2.) Because of its exquisite Sense. (3.) Because of the Consent it hath with the Brain. (4.) Because of the great Plux of Humours falling upon a wounded Eye. (5.) Because of the continued Motion of the Arteries.

Q. What are the Differences of Wounds of the Eye?

A. They are either superficial, which pass not through the Cornea; or deep, which do penetrate through it.

Q. What are we principally to observe in the Cure

of these Wounds?

A. (1.) That we use no oily nor sat things.
(2.) That when one Eye is wounded, we roll up both.

both. (3.) That the Head lie high, bending forwards; and the Reasons are: (1.) All oily things inflame the Eye, and cause Pain: And (2.) We roll both Eyes up, because Light, at such a time, is prejudicial to the Eye; and if only one Eye be rolled up, and the other exposed, that which is so exposed moves, and by its Motion causes the wounded Eye to move also; which retards the Cure.

Q. How is Pain to be affuaged in Superficial

Wounds of the Eye?

A. Things of modern use are, Aq. Sperm. Ranar. Rosar. Plantag. Portulac. Pluvial. Mucilag. Sem. Psillii, Tragacanth. Papav. Hyosciam. Decost. Nuc. Cupress. Balaust. Lac Muliebr. Sang. Turturum & Pullorum, Columb. &c.

Q. How are thefe to be applied?

A. Unless Matter abound, it will be sufficient (the Eye being shut) to apply them above the Eye-lid; and then to the Forehead apply Pulp. Pomor. sub Ciner. cost. Cass. Mucilag. Sem. Psilii, Cydonior. Far. Hordei Cribrat. Bol. Arm. &c.

Q. Suppose the Eye-lid and the Tunica Conjunc-

tiva both wounded?

A. Then great Care is to be taken, that they do not grow together; which may be done by applying Fol. Auri between them.

Q. How is it to be dreffed if the Aqueous Hu-

mour comes out ?

A. If it all comes out, the Sight will be lost; but if only Part, not so; especially in Children; and this is cured as a superficial Wound.

Q. But, what think you if the Crystalline and

Vitreous Humours come out?

A. Then the Sight is of necessity lost. Q. How is such an Eye to be dressed?

A. With Lap. Tutiæ, & Calaminar. Præparat. Ter. Sigillat. Sang. Dracon. Sarcocol. &c. very finely fearced.

Q. How will you drefs the Wounds of the Ear?

A. If it be wholly cut off, drefs it throughout as other Wounds; if it be only divided, and that but in part, the dry Stitch may serve: but if it be large, a Needle and Silk must be used, taking care to pass it through the Skin [only] and not the Ear, for fear of an Inflammation, Pain and Mortification, and then use strong Desiccatives; and if it reach to the Meatus Auditorius, you must keep the Ear stopt with a Sponge-Tent, to prevent a Fungus and Matter falling in, which might corrupt the Tympanum or Drum, and cause Deafness.

Q. How are Wounds of the Nose to be ordered?

A. If the Wound be simple, what I but now laid down concerning Wounds of the Ear, may be sufficient; but if there be a Fracture, it is to be reduced, and Quills or Pipes kept in the Nostrils, with good Boulsters and Bandage.

Q. How would you dress the Tongue, was it wounded?

A. If it is wholly cut off, it is not to be restored; but if it be not quite cut off, although it hangs but by a slessly Thread, you must try to stack it, and that deep too, that it do not break cut again; then cut off the Thread, and use Lotions ex Aq. Plantag. Syr. Myrtil. Ros. sicc. Alum. Roch. Alb. Ovi, &c. and let him hold Sacch. Ros. in his Mouth, and let his Diet be of Jellies and liquid things.



CHAP. XXXIX.

Of Wounds of the Vessels of the Throat.

Q. WHAT think you of the internal Jugular Vein and Soporal Arteries being wounded?

A. These commonly bring Death.

Q. Why?

- A. (1.) Because no good Ligature can be made on these Parts to stop the Bleeding, for fear of choaking the Patient. (2.) Because they immediately deprive a Man of Vital Spirit by the great Flux of Blood.
 - Q. How then must we attempt to stop the Bleeding? A. By fit Medicaments, and by Deligation.

Q. What are your Medicaments?

A. Either Restrictive or Escharotical: The Re-Brictive are these, Aloes, Sang. Drac. Far. Volat. Hypocist. Mastich. Sarcocol. &c. The Escharotical are either fuch as procure a Crust, or else the actual Cautery; those which procure a Crust, are made of some of the foregoing Powders mixed with Calx. Viv. Calcanth. Arfenic. Sublimat. Auripigment, &c. mixt with Alb. Ovi, and applied on Tents and Dorfels, and held hard on, continually by fome Stander-by, and not to be removed in less than three Days; and then if the lowermost stick fast, let it alone till it digefts off of its own accord, for fear of a fresh Flux of Blood.

Q. But upon Supposition that these Methods provefruitless, and we are forced to bind the Ends of the Vessels, how is that to be done?

A. Raise up the Vessels from the Parts to which. they adhere, with a small Hook of Silver; then

you are to bind them above and below the Wound strongly, and cut them afunder between the Deligations; then digest, incarn, &c. S. A. Using all the time a stender, cooling, glutinous Diet; keep the Body soluble, and rightly order the Nonnaturals, &c.

Q. Suppose one of the recurrent Nerves are cut

afunder?

A. Then use Balsams made ex Ol. Hyperic. Liniment. Arcai, Bals. Tereb. Bol. Arm. Aloes, Myrrh. Mastich. &c. which will consolidate according to your your Desire.

Q. What Accidents follow upon the recurrent

Nerves being cut?

A. If but one be cut a funder, the Voice becomes hoarse; but if both be divided, the Speech is quite taken away.

Q. Why are they called recurrent Nerves?

A. Because they come down from the fixth Pair of Nerves, and return upwards towards the Muscles of the Larynx, using in the left Part, the Trunk of the Aorta, and on the right the Axillar Arteries, as Pulleys.



CHAP. XL.

Of Wounds of the Neck.

Q. W HAT Symptoms attend the Aspera Arteria, or Wind-pipe, being wounded?

A. (1.) The Breath comes out at the Wound. (2.) Blood comes out at the Mouth. (3.) The Speech is hindered. (4.) A Cough troubles the Patient.

Q. Are Wounds of the Wind-pipe mortal?

A. Tho' they are not so of themselves, yet by Accident they may become so.

Q. Why?

A. (1.) By reason of their fearful Symptoms, being so near the Jugular Veins, and Soporal Arteries, which are generally wounded with it; it hath also many Branches of the recurrent Nerves, and sundry Muscles. (2.) Because Medicines cannot be kept on. (3.) Blood may fall from the fugular Veins upon the Lungs, and sufficate the Patient.

Q. How are they to be cured?

A. If they be transverse, the wounded Patient must bend down his Head; but if streight, he is to hold up his Head, that the Brims may be blought close together; then treat it with Needles or Pins, as in a Hair-Lip, because Silk or Thread will rot; then apply Liniment. Arcai, and over all Diapalma malaxed cum Ol. Myrtil. &c. and take care that neither Blood nor Quittor sall upon the Wind-pipe, lest it choak the Patient: and if it be already lodged there, vent must be given to it in the depending Part, and a small Silver Pipe put in, and there kept till the fearful Symptoms are all over.

Q. Are

Q. Are no internal Means to be used?

A. Yes; make Gargarisms ex Hord. perlat. Flor. Ros. Rub. Balaust. Jujub. Uvar. Pass. Glycyrrbiz. Syr. Myrtin. &c. tho' I cannot see, that they can be of much use.

Q. What are the Signs of the Oesophagus or

Gullet being wounded?

A. (1.) The Meat and Drink will come out at the Wound. (2.) There will be difficulty of Swallowing. (3.) Hiccough and Vomiting. (4.) Fainting and cold Sweats, with Coldness of the Hands and Feet.

Q. What are the Prognosticks in these Wounds.

A. (1.) All these Wounds are of difficult Cure.

1. Because they bring Difficulty of Breathing.

2. Because they can hardly be inflicted unless, the Aspera Arteria, Jugular Veins, Soporal Arteries, and recurrent Nerves, or some of them, be wounded also. (2.) The smaller the Wound, and the surther from the Mouth of the Stomach, the less dangerous, & è contra. (3.) If it be wholly divided, the Cure is impossible, because one part slies, upwards, and the other contracts downwards.

Q. How are these Wounds to be cured?

A. The first Intention is Stitching, taking care to leave an Orifice in the depending Part, for discharge of Matter, &c. then cure it as Wounds of the Windpipe.

Q. What Diet is to be used?

A. All his Food must be liquid, and such as will nourish very much, (viz.) New Milk, Almond Milk, with Sacch. Rosat. dissolved in it; Chicken-Broths, Emulsions, &c.

Q. But suppose the Patient cannot swallow at all?

A. Then nourishing Glisters are to be administred; but first give a purging one, to drive the Excrements out of the Guts: and remember that

in the nourishing Glisters, you give no Oil, Salt, nor Sugar, because thereby too speedy Expulsion will be caused.

CHAP XLI.

Of Wounds of the Breaft.

Q. WHAT are the Signs of the Lungs being wounded?

A. The Blood which comes forth is yellowish and frothy, there is a Cough, and difficulty of Breathing, with a Pain on that side, tho' the Patient is most at ease when he lies on it.

Q. What are the Prognofticks ?

A. If the Vena Arteriosa be wounded, they are deadly; and if the Party live, in Wounds of the Lungs, they commonly leave a Fistula.

Q. What are the Signs of a wounded Diaphrag-

ma i

A. There is a Heaviness on that Part, a Raving, Asthma, Cough, Pain, and Fever.

Q. What are the Prognosticks?

Mounds on the sleshy Part of the Diaphragma are dangerous; and if in the Nervous Parts, certain Death ensues: because in the first case we cannot come to dress them, and they are in continual Motion; and because the Parts within the Breast are easily instam'd; and in the last case by reason of Instammation, a Delirium, and sometimes a Convulsion follows.

Q. Why are Wounds of this Part so dangerous?

A. (1.) Because it is Membranous, and in continual Motion. (2.) It is nervous, and therefore painful. (3.) Because the *Pericardium* is tied to

it. (4.) In Wounds of it, the Brain suffers by reafon of the Nerves, which are inserted in it; the
Heart, by reason of its nearness, and the Arteriæ
Phrenicæ; the Liver by reason of its Conjunction
with the Venæ Phrenicæ. (5.) In Wounds of it,
Breathing is hindered. (6.) Because Blood issues
into the Cavity of the Breast. (7.) Pain of the
Spine reaching to the Shoulder, attended with
Cough, Fever and raving, &c.

Q. Suppose the Heart to be wounded?

A. If the Substance of it be wounded, it is to be reckoned deadly.

Q. Why?

A. Because, (1.) It is the beginning of Life.
(2.) It is the Laboratory of the vital Spirits. (3.) It is the Shop of the vital Blood. (4.) It is in continual Motion. (5.) It is an hot Entrail, and subject to Inflammation. (6.) Its Substance is compact and dry. (7.) Blood issues out from it into the Cavity of the Breast, which stifles the Patient.

Q. How will you know that some great Vessel in

the Breast is wounded?

A. By these Signs: (1.) Difficulty of Breathing. (2.) The Fever increasing. (3.) There will be vomiting of Blood. (4.) After the Blood putrifying, the Breath will stink. (5.) A depraved Appetite, a Desire to Vomit, coveting to lie down, and often Fainting, &c.

Q. Why are Wounds of the Breast in general so

dangerous?

A. (1.) Because of the great Flux of Blood, which cannot be staid, because these Wounds lie deep, and so will neither admit of Rolling nor proper Applications. (2.) Because the Coats of the Veins and Arteries are Membranous, and cannot be cured by the first Intention. (3.) Because the Discharge of Matter is both difficult and dangerous:

dangerous. (4.) Because the Blood falling into the Cavity of the Breast, presses down the Diaphragma, causes Dissiculty of Breathing, and being converted to Quittor, acquires a malignant Nature, and so may cause a Convulsion, Raving, and in time, an Empyema, Phthisis, and hectick Fever, if not Death.

Q. What is the Method of Cure in penetrating

Wounds of the Breaft ?

A. (1.) Lay the Party in his Bed, with the Orifice of his Wound downwards, and let him endeavour by Coughing, and holding his Breath, to discharge the Blood fallen into the Cavity of the Breast; which being done, dip a Flamula in Alb. Ovi, and put it into the Wound, letting the greatest Part hang without it; or instead of a Flamula, a silver or leaden Pipe may be used, dipt in warm Liniment. Arcai, and a Diapalma Plaister over all, with good Boulsters and Rolling, which must be continued till the Wound discharges but a small Quantity of Matter.

Q. What is the longest time required for ordinary

penetrating Wounds here?

A. About Forty Days.

Q. Is the Blood and Quittor to be discharged no way but by the Wound?

A. Yes, both by coughing it up, and by Urine.

Q. How is it carried from the Cavity of the Breast to the Mouth?

A. (1.) It is carried into the Pleura, then into the Substance of the Lungs; thence to the Aspera Arteria, and so to the Mouth.

Q. How is it Sent out by Urine ?

A. It passes first into the Substance of the Pleura, then into the Vena sine pari, near the Diaphragma, where a Branch of it passes directly to the Emulgents, and so to the Kidneys and Bladder.

Q. Pro-

Q. Proceed to the rest of the Cure?

A. The Patient drest, as before directed, if there be Occasion, bleed him, and give him some vulnerary Potion, wherein is Pulv. Rhab. Mummiæ, Ter. Sigillat, &c. and after this, daily a Decoction ex Sem. quatuor frigid Maj. Rad. Fænicul. Petrofelin. &c. or a Decoct. Pect. cum Syr, è quinq. Radicibus, Ros. Simpl. &c. taking 3vj. every sour Hours; or it Matter offer it self to be purged by Expectoration, then give Aq. Font. cum Aceto warm; and if he coughs with difficulty, give Syr. Tussilag. aut Glycyrrhiz. cum Syr. Acetos.

Q. May no Injections be used?

A. Yes, as the Case may stand; but beware, (1.) That no bitter thing be put into them; and, (2.) That care be taken, that all the Injection come out again: and then upon the Flamula or Pipe, lay a Sponge wet in S. V. for the first four or five Days, to keep out the Air, and extract the Matter by a gentle heat. (3.) Use no Pledgets of Lint, lest by Inspiration they be pulled into the Cavity of the Breast, and cause Putrefaction.

Q. How often are penetrating Wounds of the

Breaft to be dreffed?

A. According to the small or great Quantity of the Matter, once or twice a Day.

Q. When is it time to suffer the Wound to close ?

A. When the Patient breathes freely, finds but little Pain, and no Weight towards the Diaphragma, and the Quittor laudable, and but little in quantity.



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CHAP. XLII.

Of penetrating Wounds of the Abdomen, without any Hurt of the Parts contained.

Q. I OW will you be certain if a Wound of the

Abdomen penetrates, or not?

M. If the Omentum, or one of the Intestines start out, or if you inject warm Wine, and it does not return, or if the Probe goes deep straightways, you may judge it penetrates.

Q. What are the Presages in such a Wound?

A. A Wound of the Abdomen not penetrating, is without Danger, unless it be extraordinary large.

(2.) A Wound on the middle Part is more dangerous than one on the fides. (3.) All penetrating Wounds are dangerous. (4.) If any of the contained remarkable Parts are wounded, it commonly proves deadly.

Q. Why are all penetrating Wounds there dange-

rous ?

A. (1.) Because they are mostly large, and always deep. (2.) Because the Air hurts the Intestines. And, (3.) because the Quitter falls into the Cavity.

Q. How are we to proceed in the Cure?

A. If any Part start out, it is to be restored either by your Hand; or if it has long hung out, and is tumissed, it is to be done by a Fomentation ex Flor. Cham. Melilot. Anethi, Pulegii, Tanaset. Lavendul. Absinth. Bacc. Lauri, Sem. Cymini, Anisi, &c. decocted in Vin. Rub. vel Laste: and if after reasonable Fomentation you cannot restore it, the Wound is to be enlarged, to make way for it.

Q. If

Of penetrating Wounds of the Belly. 129

Q. If by reason of long continuing in the cold Air, the Omentum be cooled, hardned or livid, what

must be done with it ?

A. Then tye it near to the found Part, and cut the corrupt Part away, letting the Thread hang out, till the corrupt Part separates from the whole.

Q. Why must Ligature be made in this Case?

A. Because otherwise much Blood would fall into the Cavity of the Abdomen.

Q. The Omentum being restored, how are these

Wounds to be Stitched?

A. Having a clear Light, and a good Affiffant to hold up the Parts, you must lay the Patient on the fide opposite to the Wound, that the Guts be not in your way; then take a good Needle fit for the Purpose, well armed with a good waxed Thread; and then, first, the Needle is to be thrust thro' the Skin and the Muscles, even to the Peritonæum, not touching it on that Side; then from within outwards the Needle is to be thrust thro' both the Peritonaum and Muscles of the opposite fide; then at an Inch distance, the Needle is to be passed thro' the Muscles of the same side, leaving the Peritonæum, and afterwards from within outwards, it is to be passed thro' the Peritonaum and Muscles, and so proceed, sometimes piercing the Peritonæum, and sometimes forbearing it, till you have sufficiently stitched the Wound, which ought to be strengthened by the dry Stitch, because in a few Days the Thread will cut the Brims afunder.

Q. What Topick will you then apply?

A. All vulnerary Balsams, and agglutinative Emplaisters, are proper; as Bals. Lucatel. Linim. Arcai, Ol. Hyperic. cum Gum. Ol. Tereb. Sarcocol. Mastich &c. mixed; and overall, Empl. Paracels. & ad Hern. mixed; and to prevent Pain, embrocate all the Parts about with Ol. Rosar. But

remember

for the Discharge of Matter, which otherwise would collect, and cause sad Accidents.



CHAP. XLIII.

Of Wounds of the Parts appointed for Chylification.

Q.W. HAT are the Signs of the Stomach

A. The Wound is under the Cartilago Ensiformis, from whence Chyle comes forth; also there is Hiccough, vomiting of Choler, and whatever is taken in by the Mouth; the Pulse grows weak, thin Sweats, and the Extremities of the Body grow cold, &c.

Q. What are the Prognosticks?

A. If they are fuperficial, they are of easy Cure; but if they are penetrating, and towards the bottom of the Stomach, they are deadly.

Q. What do you mean by that Word deadly?

A. (1.) In a strict Sense, that which brings inevitable Death. (2.) In a more lax Sense, that which most commonly brings Death.

Q. Why are they so dangerous?

A. (1.) Because it is of a Membranous Substance.
(2.) The Brims of the Wound cannot be kept together by Ligature. (3.) Vulnerary Potions slip out of it. (4.) Meat and Drink keepasunder the Brims. And, (5.) it is a very sensible Part.

Q. How are Wounds of the Stomach to be cured,

if at all curable?

A. The Tent must not enter the Stomach; only it is to keep open the Parts lying above it; let it be armed with Tereb. Ven. lot. cum Vitel. Ovi, &c.

and

and outwardly embrocate with Ol. Rosar. & Myrtil. and give him inwardly Syr. Cydonior. vel Granat. in Aq. Plantag. or Vinc. per Vinc. and let him eat and drink very sparingly.

Q. What are the Signs of the small Guts being

wounded?

A. The Chyle comes out at the Wounds, the Flanks swell, the Patient vomits Choler, and has the Hiccough, with great Gripings in the Belly.

Q. Which are most dangerous being wounded? and

why?

A. Wounds of the small ones are most dangerous; because they are more nervous, and of a more exquisite Sense, are nearer to the Stomach, and have more Mesaraical Veins, besides they distribute the Chyle, and more refine it, and their Substance is more thin, and not so readily admit of Agglutination as the great Guts do.

Q. What are the Presages in these Wounds?

A. Those of the small Guts prove most commonly mortal; and amongst these, Wounds of the Jejunum are the worst.

Q. How are these Wounds to be cured, if curable?

A. If the Gut be not got without the Wound, it must be gently drawn out, and stitched with the Glover's Stitch, with Thread not waxed; then foment it with warm Red Wine, and reduce it to its place, strowing over it Pulv. Sarcocol. Myrrh. &c. and then the external Wound is to be stitched and dressed as has been taught in the Chapter of penetrating Wounds of the Abdomen. Then lest the Excrements should harden, seed the Patient with moistening Meats; and as you see occasion, give him emollient Glisters: But here is no necessity for vulnerary Drinks.



CHAP. XLIV.

Of Wounds of the Liver, Spleen, Kidneys, Emulgent Vein, Artery and Bladder.

Q. TATHAT are the Signs of a wounded Liver? A. A great Flux of the Blood on the right fide, and the fide drawn towards the Spine; the Patient delights to lie upon his Belly, the Scapula stretched, and pricking Pains even to the Neck: they have a Fever, and fometimes void Blood by Urine, &c.

Q. What are the Prognosticks?

A. (1.) If these Wounds are superficial, they admit of Cure; if deep, not. (2.) If cold faint Sweats feize the Patient, and he thereupon grows weak, Death is at hand.
Q: Why are deep Wounds here mortal?

A. (1.) There is a great Flux of Blood. (2.) Inflammation. (3.) Vulnerary Potions lose much of their Energy before they can reach the Part. (4.) It lies fo deep, that Medecines cannot well be applied. (5.) Matter cannot be discharged, and so the whole Liver may be corrupted, from whence Sanguification is hindered, and a Confumption or Dropfy procured, &c.

Q. What is to be done, if you are called to dress

fuch a Womnd?

A. Diffolve aftringent Troches in Aq. Plantag. or Burfa Pastoris cum Syr. Rof. sicc. Myrtil. & Granat. &c. and give inwardly vulnerary Drinks, Wic.

Q. What are the Signs of a wounded Spleen? A. Black

A. Black Blood flows from the left fide; the Side and Stomach become hard; Thirst increases, and the Pain reaches to the Neck.

Q. What are the Presages in this Case?

A. Some affirm that the whole Spleen may be taken out, and the Patient live; tho' it is certain that deep Wounds of it are for the most part deadly; or at best, the Body becomes ill affected. fo that Dropfy, Scabs, and fuch Difeases may feize it.

Q. Why do Wounds of it commonly prove mortal?

A. (1.) Because a great Flux of both Venal and Arterial Blood doth follow. (2.) It is a part helping Sanguification, and being wounded, is obstructed in the Performance of its Duty. (3.) It is easily inflamed. (4.) Because it hath a great confent with the Heart, by Communication of the Arteries; by which (from the Quittor and putrify'd Blood) noisome Vapours may be fent to the Heart.

Q. How are these Wounds cured? A. As Wounds of the Liver.

Q. What are the Signs if the Kidneys are wounded?

A. If it reach to the Pelvis, clotted Blood will come forth by Urine; there will be a great Pain in the Part, which will reach to the Groin and Tefficles.

Q. What are the Prognosticks?

A. (1.) If the Wound be received through the Back, it is mortal. (2.) If it be received by the Side, and pierce no further than the Carunculæ Papillares, it may be cured, but with much Difficulty. (3.) If it pierce to the Pelvis, it is most commonly deadly.

Q. Why do Wounds of the Kidneys, received by

the Back, prove mortal?

A. Because the Wound must pierce the Psoa, and the Nerves springing therefrom, the Spinalis Medulla can hardly escape.

Q. Why are these Wounds of difficult Cure, tho'penetrating no farther than to the Carunculæ Papil-

lares?

A. Because both the Muscles of the Belly and the Peritonæum must be wounded also, between whose Membranes the Kidneys are wrapped.

Q. Why do the Wounds prove mortal, if they reach

the Pelvis?

A. (1.) Because the draining of the Serosity from the Veins and Arteries, is so very necessary, otherwise it would hinder the Union of the Wound. (2.) Because the Substance of it being very compact, does very difficultly admit of Consolidation.

Q. Suppose the Emulgent Vein and Artery be

wounded?

A. Then Death may be expected, because of the desperate Flux of Blood which will ensue; nevertheless the Cure may be attempted by healing Injections, and giving inwardly vulnerary Potions, or Lac recent. in which dissolve Sacc. Rosat. Troch. Alkekengi cum Opio, or sine Opio, as your Judgment directs you.

Q. What are the Signs of a wounded Bladder?

A (1.) The Urine comes bloody and sparingly, (2.) If the Urine falls into the Cavity of the Abdomen, it will seem to be an Ascites, and the Pain will be sent to the Groins and Testicles.

Q. What are the Prognosticks?

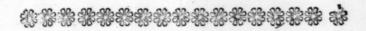
A. (1.) Wounds in the fleshy part of the Neck of the Bladder may be cured; as may those in the sides of the Groin, if the Patient be young. (2.) Wounds in the Membranous Parts of the Bladder are incurable, because the Bladder is nervous, thin, and has but little Blood, it is apt to mortify;

the

Of Wounds of the Nervous Parts. 135 the Acrimony of the Urine will not fuffer the Wound to heal; and it is attended with dreadful Symptoms.

Q. How are these Wounds to be cured, if curable?

A. (1.) Admit of no cold Water to be drank. (2.) Give vulnerary Potions, in which dissolve Syr. Rof. fice. Mel. Rosar. Gum Tragacanth: &c. and to the Wound apply Tereb. Cypr. Ol. Over. Vitel. Ovi. &c.



CHAP XLV.

Of Wounds of the Nervous Parts.

Q. WHAT do you intend here, when you speak of Wounds of the Nervous Parts?

A. I mean Nerves, Tendons, and Ligaments.

Q. By what Signs will you know a Nerve to be

A. (1.) By the Part; if many and great Nerves be in the place wounded, or that pass by it. (2.) Pulsation, Raving, Convulsion, Inflammation, Mortification, &c.

Q. What are the common Accidents happening to

Nerves?

A. A Puncture, an Incision, a Contusion, and Distortion.

Q. What are the Prognosticks in Wounds of the Nerves?

A. All Wounds of the Nerves are dangerous.

Q. Wby?

A. (1.) Because the Membrane, with which they are covered, proceeding from the Meninges,

136 Of Wounds of the Nervous Paris.

makes them exquisitely fensible, and they are filled with Animal Spirits. (2.) Because of their consent with the Brain and the Spinalis Medulla. (3.) By reason of the fearful Symptoms which follow.

Q. What are the general Indications of Cure?

A. (1.) To prevent the Flux of Humours, breathe a Vein, and give gentle Catharticks. (2.) Use a very slender Diet. (3.) Let the Air be warm. (4.) Use all your Applications warm.

Q. How will you know when the Heat of the Me-

dicine is proportioned to that of the Part?

A. (1.) If the Patient, upon the Application, feel a pleasant Heat. (2.) If the Part is possesfed with a pleasant Itching; but if the Party feel either no Heat at all, or too much, upon the Application of the Medicine, it is not as it ought to be.

Q. How is a Puncture of a Nerve to be cured?

A. By Medicines hot, dry, and of subtle parts, to digest, attract, and dry the Putresaction; (viz.) Ol. Iereb. Spir. Vini. Euphorb. Ol. Rosar. cum Sal. Com. &c.

Q. But what will you do, if Symptoms do not abate

upon these Applications?

A. Then make cross Incision of the Skin, that Medicines may have their due Energy on the punctur'd Part, when perhaps it may be necessary to compound your Applications in milder forms.

Q. Which is least dangerous, a Nerve quite divi-

ded, or only cut partly through?

A. That quite divided.

Q. Why fo?

A. Because then it cannot send any Harm to the Brain; but the Use of the Part is for ever lost.

Q. How are such Wounds to be cured?

A. The Topicks must be dry, and but very dittle biting, as Unguent. de Calce lot. &c. and by Sarcoticks,

Of Wounds of the Nervous Parts. 137 Sarcoticks, such as in our Conference have been often repeated.

Q. How mift it be dreft, if but in part divi-

ded ?

A. As directed already at the beginning.
Q. But if Symptoms do not abate, how then?

A. Then, (rather than to expose the Patient to the Danger of Death) it will be best, quite to divide it; then to use Anodyne, and drying Medicines, with Fomentations, Cataplasms, &c. formerly prescribed.

Q. Suppose the Nerve to be contused, or bruised?

A. If there is no Solution of Unity, embrocate with Ol. Lumbricor. & Terebinth. hot, and apply Empl. Stiet. Paracelf. malaxed with Ol. Hyper. Comp. &c. spread on Leather.

Q. Suppose a Distortion of the Nerve, which

binders the Motion of the Part?

A. Embrocate eum Unquent. Nervin. & Ol. Terebinth. and apply a Cerat. ex Empl. è Mucilag. & Gum. Ammoniac. &c.

Q. But what must be done, if after this, a Hard.

ness and Numbness of the Part remains?

A. Embrocate with Ol. ex Pedibus Bovin. Lil. alb. Adeps Anseris, & Gum. Bdellii, cum Mucilag. ex Rad. Altheæ, Sem. Lini & Fænugrec. warm, and over the Part apply Empl. Diach. cum Gum. foftned with liquid Storax, &c.

Q. What must be done when an Instammation at-

tends a wounded Nerve?

A. Embrocate cum Ol. Sambucin. & Acet. Rofat. and over all apply a Cataplasm ex Far. Hord. Orobi, Oximel. &c.

Q. What must be done to abate Pain?

A. Bleed, purge, use a spare Diet, and apply a Cataplasm ex Far. Fabar. Fol. Malv. & Vio-

lar. cost. in Laste. recent. cum Unguent. Populeon, &c.

Q. Suppose a Convulsion seize the Part?

A. Embrocate the Spine and wounded Member eum Ol. Cham. Lavendul. Succini, Rorismarin. &c. hot, and apply to the Member the inside of a Sheep's-Skin, newly killed.

Q. How will you know if a Tendon be wound-

ed?

A. (1.) If the Wound be near the Joint. (2.) If it be in a Part that is not fleshy, &c.

Q. What are the Indications of Cure?

A. The same as those in a wounded Nerve.

O. How are wounded Ligaments to be cured?

Q. How are wounded Ligaments to be cured?

A. By Medicines drying, and not too hot,

Ol. Mastich. Balf. Natural. and consolidating

Powders.

CHAP. XLVI.

Of Wounds of the Joints.

Q.HOW are the Wounds of the foints to be cured?

A. If it be a Puncture, it is to be managed as a Puncture in a Nerve or Tendon; but if it be by Incision, they are to be stitched, leaving a Place for discharge of Matter in a depending Part; and let all your Applications be very drying, and applied hot, Liniment. Arcæi, Pulv. Myrrh. Sarcocol. Mastich. Aloes, &c. and over all apply a Cataplasm ex Far. Hord. & Fabar. Flor. Cham. Melilot. Acet. Sambuc. Ol. Ros. Popul. &c.

Q. What is to be considered in these Wounds?

A. Chiefly

A. Chiefly the due Position of a Member, that it may not be bept in such a Posture, as that the Limb may be useless when the Wound is healed.

Q. How is that ?

A. (1.) If the upper part of the Shoulder be wounded, put a large Boulster to the Arm-pit, and carry the Arm in a Scars. (2.) If the lower part of the Arm be wounded, carry it in a Posture between Extension and Contraction; and when the Lips unite, use a moderate Motion of the Limbs. (3.) If the Joint of the Elbow be wounded, take care that it may not be too much contracted, nor extended. (4.) If the Wrists or Joints of the Fingers be wounded, keep them half shut, moving a Ball in the Palm of the Hand; otherwise they may prove useless when the Wound is healed.



CHAP. XLVII.

Of AMPUTATION.

Q. W HY is Amputation performed?

A. To preserve the Life of the Patient, which otherwise would be lost.—Immedicabile ense rescidendum est.

Q. When is it to be done?

A. When there is no Possibility of staying the Mortification, or saving the Life and Limb without it.

Q. In what Part is it to be made?

A. If in the Arm or Thigh, it is to be as near the Wrist or Knee as possible; but let it be where it will in the Leg, your way is to take it off about three or four Inches below the Knee; for a long Stump

Stump of the Leg is both troublesome and unfeemly.

Q. How is it to be performed?

A. Place the Patient to your mind, having fufficient Help to affist you, let one of your Asfistants draw up the Muscles very tight; then about two or three Fingers breadth above where you defign to take off the Limb, make a very hard Ligature, and a Hand's breadth above that, make another flack; which must be turned about with a fhort Stick, (which is called a Batoon, or a Turniken,) till it numbs the Part; then let one Affiftant hold the upper Part, and another the lower Part of the Limb steady; then (standing within fide of the Limb) with two Stroaks of your difmembring Knife, divide the Flesh, (and with the back of it, the Periosteum) and then as near to the upper Part as possible, with your Saw, take off the Bone, with as few Stroaks as you can; (remembring, that if there be two Bones, as below the Elbow and in the Leg, that you first divide between them with your Catling.) Then take Dorfels, being first armed with your Restrictive, and then dipt in scalding hot Ol. Terebinth. and apply to the Mouths of the Vessels; to the Bone a Pledget of dry Lint, and to the Stump two large Pledgets, one larger than the other, yet both fo big as will cover all the Stump, armed with Pulv. Restring. maj. made soft with Alb. Ovi. & Acetum; all which keep hard on with your Hand, till your Affistant loofes the first Ligature, and shoves down the Muscles over the Stump. Then over all pull on an Ox-Bladder, and over that a cross Cloth hauled up torte, to keep all on firm; then with a fingle Roller make feveral Turns about the cross Cloth, rolling sometimes upwards and sometimes downwards till all be used. Then with a double-

where

double-headed Roller, roll all the Dreffings on equally to the Stump, taking care, that it be neither too flack nor too torte; (for the first would not restrain the Hemorrhage, and the second would cause Pain, Inflammation and Mortification.) Then take off that Ligature belonging to the Batoon, or at least, slacken it; and so put your Patient into his Bed, with his Stump raised, and some one to sit by him, to apply their Hand to it, till the Dreffings dry on.

Q. Suppose you amputate for a Mortification.

A. If possible, take it off two Fingers breadth above the Mortification; or if it so happens that you cannot, then after the Limb is off, you must apply to the Stump actual Cauteries, to dry up the Humidity, and recall the Spirits to the Parts; and then dress it up S. A.

Q. Is there no other way to stop Bleeding but Ol.

Terebinth, and the actual Cautery?

A. Yes; Many make Ligature on the Ends of the Vessels; and if you amputate where there are great Vessels, it will be convenient, instead of Dorsels, to have Buttons made of Tow, armed with a Restrictive, and dipt in hot Ol. Tereb. and fo apply them, and drefs up the Stump as before directed, having first made the crofs Stitch, which will help to stop the Flux of Blood, and make a round handfome Stump also: And indeed, the cross Stitch is a more quick way than to take up the Arteries, and full as fecure: For in all the Sea-Fights which I have been in, (which have been pretty many) I never used any other Method, and never had any Hemorrhage attending, nor fucceeding it: not but taking up the Veffels and tying of them, is a very fure and fecure Way, if you have Time; but in a Sea-Fight, attended with great Confusion and a Multitude of Business, and

where you must operate by Candle-light; a Ligature of the Vessels is not so practicable nor eligible, and takes up too much Time; therefore, if the cross Stitch be made directly over the Buttons (that are on the Ends of the Arteries) and pulled tight and equal, and the Stump also covered with small Pledgets armed with Restringents, and two large ones over all, no Hemorrhage need to be feared, though no Ligature of the Arteries be made at all.

Q. When is it to be opened again?

A. Not till the third or fourth Day; but in the Interim, you are to fee that it does not bleed, and ease the Bandage, if there be occasion.

Q. How is it to be dreffed the first Dreffing.

A. Have in readiness some warm Water and a Sponge, to soften the Dressings, that they may be taken off, without causing a new Flux; which done, wipe it clean, and apply a dry Pledget to the Bone; and to the Stump, Pledgets armed either with Basilicon, or a Digestive ex Tereb. Ven. Vitel. Ovi, Far. Tritic. Ol. Catellor. or Lumbricor. & Croc. then with a Pledget of dry Tow over all, with a cross Cloth and double-headed Roller, lay him by for that time.

Q. And how then ?

A. The next Day have in a readiness a good Fomentation, in which let Stupes be wrung out scalding hot, and so applied for half an Hour together; then dress it up as you did the Day before, and so continue till the Wound is well digested; every Day dipping the Pledgets in Spir. Vini warm; and then cure it as other Wounds of the sleshy Parts, taking care to prevent a Fever, or ill Accidents.



CHAP. XLVIII.

Of a Gangrena or Mortification.

Q. W HAT is a Mortification? A. It is when the natural Heat of a Limb is in part extinguished; the Limb is discoloured, cold, and in part infensible.

Q. What is a Sphacelus?

A. It is when the natural Heat is wholly extinct, the Limb is dead, livid, vesicated, quite insensible, and fætid.

Q. What is to be done in this Cafe? A. Amputation without delay.

Q. But suppose it is only a Mortification?

A. Then scarrify the Part till it bleeds, and the Patient feels it; then apply fealding hot Stupes for half an Hour, wrung out of a strong Fomentation, wherein is put a Quantity of S. V. or Brandy; and to the Scarrifications apply either Ol. Terebinth. scalding hot, or Spir. Vin. & Egyptiac. and dress it twice a Day, till the Mortification stops, the Sloughs separate, and the Scarrifications digeft; then mundify, incarn and cicatrize, as in other Cafes.



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CHAP. XLIX.

Of Fractures in general and particular.

Q. W HAT is a Fracture?

A. It is a Solution of Unity in a Bone; arifing from some violent external Cause; it is called in Greek Καταγμα.

Q. How is a Fracture made?

A. Three ways; viz. (1.) Transverse, as when a Stick is broke short off. (2.) Streight, when the Bone is split up and down like a Plank. (3.) Oblique, when it is compounded of both the former.

Q. How will you know when a Bone is fractur'd?

A. (1.) By the crackling of the Bones as you handle the Part. (2.) By the violent Pain in the Part, if it be handled. (3.) Commonly there is a Prominence or bunching out. (4.) The Limb is without Strength, and useless, and sometimes there is a Shortness in it; but these are Signs attending the Transverse and Oblique Fracture only.

Q. How will you know when it is split lengthways?

A. The Part is thicker than naturally it should

be, with Pain and Unevenness, &c.

Q. How many forts of Fractures are there?

A. Two; (viz.) Simple and Compound; the one is without a Wound, and the other ever attended with one.

Q. Which are attended with most danger?

A. The Compound ones without dispute, and those again in the great Bones, and near the Joints.

Q. How many Intentions of Cure are there in a

Simple Fracture ?

A. Five; viz. (1.) To put the fractur'd Bones exactly together again; which is done by Extension and Réduction. (2.) To keep the Parts fo put together in their right places. (3.) To manage the Cure as it ought. (4.) To endeavour to breed a Callus. (5.) To correct ill Accidents.

Q. What Damage comes by not making right Ex-

tenfion ?

A. If it be more violent than it should, it causes Fevers, Pain and Convulsions, and sometimes Palsies; and if it be less than it should, the Shivers of Bone will rub one against another, and break, and so by their pricking on the Nervous Parts cause Pain; but the bigger the Bone, the more violent Extension out to be.

Q. How is the Operation to be performed?

A. Either by the Surgeon's Hand alone, (as in young Children) or by Pulleys, as in very strong Bodies, or where the Fracture has remained long unreduced; or by two Affistants, the one holding the upper, and the other the lower Part of the Limb, and so making due Extension, till the Surgeon with his Hands gently and exactly reduces the fractur'd Bones.

Q. How will you know when the Bone is well re-

duced?

A. If compared with the found Limb, it be found to be uniform with it: or if no Hollow-ness nor Inequality remain in the Part, and if Pain be abated, these are all good and certain Signs.

Q. How are the Parts of the broken Bone to be kept

united ?

A. Having reduced the Fracture, apply all round it, either Empl. è Bolo, or Bol. ver. & Posca, made into the form of a Liniment, and spread upon

a foft Cloth; which simple Composition alone is of more Effect to ease Pain, prevent Imflammation and a Flux of Humours to the Part, than any Medicine whatfoever that I ever yet met with, however pompous the Title may be. Then with a Linen Roller dipt in Posca, take three or four Turns round the Fracture, and from thence roll upwards as far as you fee convenient, and fo downwards again to the Fracture; then to that part of the Fracture which bunched out, apply a Boulster dipt in Posca, and then with a doubleheaded Roller take a Turn or two about the Fracture, and so pass one part upwards and the other downwards, till you have spent it all; and then round the Limb, (with three Pieces of Tape) tye (pretty hard on) as many Splints of good Pastboard, armed at the Ends, as will compass the Part: and then bleed the Patient, and lay him in his Bed, as easy as you can, and his Leg in a Case, made for that Purpose, to keep it firm, and every thing hollow from it; keep his Body foluble, and him to a spare Diet.

Q. How will you know if the Bandage be good?

A. (1.) By the Patient's Ease. (2.) If the next
Day, a loose small Tumor appear in the extreme
Part, the Bandage is good; and on the contrary,
if no Swelling appear, or a great and hard one, it
is bad: for the first shews that the Fracture is not
kept so hard rolled as it ought, and the latter causes

Inflammation.

Q. When are Dreffings to be taken off?

A. Not till the feventh Day, except you see absolute Necessity.

Q. How is it then to be managed?

A. If you find all things well, embrocate with Ol. Rosar. and apply a Cerecloth, ex Empl. Diapal. ad Herniam & Paracels. and roll it up as at first;

only first remember, that if it is possessed with a troublesome Itching, let it be bathed in warm Water; by which Method, the Tone of the Part will be preserved, and the Substance of the Bone kept sound, if rightly followed.

Q. When do you endeavour to breed Callus?

A. About the feventh Day. Q. Of what is Callus bred?

A. Of the Nourishment of the Bone, ouzing out of the Edges of the Fracture, which grows hard about the fractur'd Ends; and though is is not Bone, yet it is so hard, that it will sooner break in any other part, than where the Callus is bred.

O. What are the Indications here!?

A. (1.) To supply fit Matter. (2.) To keep it from being washed away from the Edges of the Fracture.

Q. How is it fit Matter to be supplied?

A. The Food must be thick and viscid. Rice, Wheat, Feet and Heads of Calves and Sheep, and Neats; and that by degrees in a larger Latitude. Some give inwardly Ofteocolla; let your Applications be implastick, and your Bandage not too hard.

Q. How will you know when Bandage is less or

greater than it should be?

A. If it is less than it should be, if you touch the Part, little or no Callus is felt, and the Part is weak in Motion, & è contra.

Q. How is want of Callus to be remedied?

A. Greater Liberty in Diet must be allowed, the Astringents must be more gentle, the Bandage must be slacken'd, and the Part must be bathed with warm Water, till it looks red and swell; and if there is too much Callus, the contrary Course is to be taken.

Q. Suppose that by over-streight Rolling, &c. the

Limb grows small?

A. The Patient must be nourished, and Plaisters of Pitch applied, and hastily pulled off again several times one after another, that the pulling off the Hair may cause Pain, and so attract Nourishment to the Part; and then pour warm Water upon it, &c.

Q. Suppose that after the Fracture is cured, the

Limb is not in its right Figure?

A. If the Limb be not hurt in its Motion, or if the Callus be old, and the Patient weak, and old too, he must be satisfied without striving any further; but if he be young and strong, and the Callus new, the only way is to break the Fracture again.

Q. How is that to be done?

A. For several Days bathe the Part with a Decoction of Althea, Malva, &c. boiled in Neats-Foot Broth, and apply Empl. è Cicuta, cum Axung. Porcin. and then with Strength of Hand break the Bone again, (laying it upon some hollow place) then reduce it as it ought, and cure it as other Fractures.

Q. Tell me how particular Fractures are to be re-

duced?

A. The Operation is so alike in all Fractures, that it is almost needless to mention Particulars; however, take these sew Instructions. If the Clavicle or Collar Bone be broke, let an Assistant stand behind the Patient, and take hold of both his Shoulders, and pull them back, whilst he presses with his Knee between the two Scapula's forwards, and then you may easily reduce it with your Hands. If a Rib be broke, the Patient must be laid thwart a Cask, or some other thin convex thing, with his well Side downwards. And if the Os Femeris

or Thigh-bone be broke, take care you are not deceived; for the Bone is naturally crooked in all, as may be seen in every Skeleton; and the Part being very sleshy, the Bone is with difficulty kept in its place.

Q. Suppose the Patella or Knee-Pan be fractur'd? A. This feldom happens; but if you meet with fuch on Accident, and it be broke transverse, a Lameness will attend the Patient so long as he lives; but if the Fracture be right up and down, not fo, (if it be well managed.) And the Reason is plain, for if the Fracture is transverse, the feventh, eighth, and ninth Muscles drawing upwards, and the Tendon inferted in the Patella drawing downwards, it is almost impossible that the Patella should ever be joined as it ought; but in a Fracture there, right up and down, the Ends of the feventh, eighth, and ninth Muscles that move the Leg, meeting about the Patella, and ending in a strong Tendon, which involving the Patella, the Fracture is apt to close of itself, and so remain. However, if either of them happens, use all your Art to reduce it, and by Boulsters and good Bandage to keep it in its place, and cure it as other Fractures, &c.



CHAP. L.

Of a Compound Fracture.

where neither the Bone is made bare, nor do we look for any Piece of Bone to come away?

A. First reduce the Fracture as is before taught. (2.) Bring the Lips of the Wound together, and stitch them. (3.) To all the Fracture apply Aftringents and Glutinatives; and to the Wound, if there is no Bleeding, only a Pledget dipt in Vin. Rub. & Ol. Rofar. and over that the nine or fifteen tailed Bandage, whose Ends are to lay over one another on the Wound, and be pulled indifferent tight; then over that, Slips of Linen Cloth, fix or eight double, laid right up and down at about a Finger's breadth distance one from another, quite round the Limb, except upon the Wound; and over every one of them, Splints of Pastboard tied on with three Tapes, one above and the other below the Wound, and the third so contrived that the Wound may be drest without untying the other two, or moving the Limb: and this must be tied not any ways hard. Then if need be, bleed; keep the Patient to a thin Diet, and his Body fo. luble; dress the Wound every Day, digest, mundify, incarn, &c. as in other Wounds.

Q. Suppose the Bone is not made bare, yet we look

for a Piece of the Bone to come away?

A. (1.) If any Piece be loofe in the Wound, take it away immediately; but if it sticks fast, use no Violence to it. (2.) Give free discharge to the Matter, and let not the Bandage be too hard.

hard. (3.) Dip all the Bandages in Vin. Rub. & Ol. Rof. (4.) When the Inflammation is over, use all your Endeavours, that the Bone may be thrust forth, which Nature will in time do; but it may be helped by Medicines, as Cera, Citr. Euphorb. Rad. Aristol. or Tinet. Myrrh.

Q. But suppose the Bone be made bare?

A. If no Pieces are separated, reduce it and defend it from the Air, and proceed as before taught, (in a Compound Fracture where the Bone is not made base) only remember, not to use any oily or sat Applications, &c.

Q. Suppose the Ends of the two Bones lie over one another, so that you cannot by any means reduce them?

A. Then you are to faw off one of the Ends, and reduce them, and proceed as is already directed.

Q. How will you do if a Mortification seizes the

A. Take off all the Dreffings, fcarrify, and apply hot Stupes, and proceed as I before taught in Chap. XLVIII.





CHAP. LI.

Of Diflocations in general.

Q.W HAT is a Diflocation?

A. Diflocation, Luxation, or flipping out of Joint, is when the Head of some Bone is forced out of its own proper Sinus into another place.

Q. How many forts of Diflocations are there?

A. Three: (1.) When Bones are separate and gape, which before were joined, as when the Scapula parts from the Humerus, or the Radius from the Ulna, or the Tibia from the Fibula. (2.) When Bones are lengthened thro' Laxity of the Ligaments, and then the Head of the Bone starts a little out of its place, and is easily reduced. And, (3.) When the Bone is whelly out of its place; and this is called a perfect Dislocation.

Q. What are the Signs of a perfect Diflocation?

A. (1.) Motion is lost. (2.) An Hollowness appears from whence the Bone is slipt, and a Prominence on the contrary side of the Juncture.

(3.) The Limb is generally shortned. (4.) That Limb is unlike the sound one, both in Figure and Site. (5.) There is joined to all the sormer, grievous Pain.

Q. What are the Signs of that Diflocation where

the Bones gape, or are separated?

A. (1.) The Thickness of the Limb is more than it naturally should be. And (2.) Where the Heads of the Bones meet, the Thickness is much greater.

Q. What are the Signs of that fort of Luxation,

when the Bones are lengthened?

A. (I.)

A. (1.) The Limb hangs dangling and diforderly, and turns any way. (2.) When the Bone is reduced, the Limb becomes of its natural length; and when it is let go, it immediately slips out again. (3.) There is a Cavity quite round the Joint.

Q. What are the Signs of a Diflocation well reduced?

A. (1.) It is known by the Patient's Ease. (2.)

By the natural Figure of the Limb and Joint, which if compared with the other, will be exactly like it. (3.) Motion is restored. And, (4.) The Head of the Bone generally snaps as it slips in.

Q. How many Intentions of Cure are there in a

Luxation?

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1.)

A. Four: (1.) Extension. (2.) Reduction. (3.) Bandage. (4.) To correct, or keep off Accidents. The (1.) is performed by Assistants or Pulleys. The (2.) by the Surgeon's Hand. The (3.) by handsome Rolling, Boulsters, &c. And the (4.) by sit Medicines, Bleeding, Purging, Diet, &c. Again, the (1.) must be done gently, for fear of Contusion, and avoid twisting about the head of the Bone, lest you break the Edge of its Sinus. The (2.) must be done speedily and effectually at once. The (3.) must be done so as to keep the Limb in its right Posture, and to prevent Inslammation. And the (4.) is done by Astringents, such as are prescribed in Fractures; and order every thing else according to Reason and Art.

Q. Suppose the Dislocation be old?

A. (1.) Endeavour to soften and discuss the Matter which is flowed into the Joint, with Diach. cum Gummi, or Compositions ex Rad. Althea, Fol. Malv. Far. Lini. Fanugrec. Ol. Oliv. Axung. Porcin. &c. having first well rubbed the Part; or hold the Limb often and long in a warm Bath, &c. and then proceed as in a new Dislocation.

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CHAP LII.

Of particular Diflocations.

Q. WHAT are the Signs of luxated faws?

A. If they be luxated on both fides,

(1.) The whole Jaw appears prominent forwards.

(2.) The Mouth cannot be flut. (3.) The lower Teeth fland out further than the upper. (4.) The temporal Muscles are stretched out very torte and bard.

Q. How is it to be reduced ?

A. Put both your Thumbs (armed with double Boulsters) into the Patient's Mouth, and with your Fingers take hold of the outside of his Chin, then force the Jaw-Bone downwards, backwards and upwards, whilst some Assistant all the while holds his Head steady; then anoint the temporal Muscles with Ol. Rosar. & Lumbricor. &c. and if need be, apply Astringents also. Then roll up the Parts decently, bleed him, and for three or four Days keep him to Liquids only.

Q. What are the Signs of a dislocated Shoulder?

A. It is in Figure very unlike the found Shoulder, having a Cavity on the top, and the head of the Bone may be felt prominent in the Axilla or Armpit; the upper Process of the Scapula appears sharp; the Arm cannot be brought to the Ribs; and lastly, it is longer than the other Arm, and attended with extreme Pain. Thus far of the Signs of a Shoulder dislocated downwards, which it most commonly is; and if it be luxated forwards, the Signs will be evident without any Direction.

Q. How is the Shoulder to be reduced ?

A. Seven feveral ways; viz. (1.) By Circumrotation, when you or the Patient puts the Fift doubled under the Armpit, fo that the middle Knuckles may force the Bone into its place, whilft with your other Hand you make moderate Extension, and keep the Bone in a circular Motion: but this is to be used only to Children and tender Bodies. (2.) Let the Patient sit; then put your Head to the Patient's Shoulder, and your Fingers under his Armpits, and then your felf, or fome Stander-by, press the Patient's Elbow (with the Knee) towards his Ribs. (3.) Lay the Patient down upon the Floor, on which do you fit down also, and take hold of the dislocated Arm with both your Hands, and put your Heel under his Armpit, (having first placed a Ball there) and then let a Servant take hold of the opposite Arm, and draw it downwards; and another having a strong Roller, (so broad as may take hold of the Ball, let him take hold of both its. Heads, and draw them up towards the Patient's Head, and with his Foot press upon the dislocated Shoulder. by which the Head of the Bone will flip in. Let the Patient stand upon a Stool, and place his diflocated Arm over a tall Man's Shoulder, who must hold the Arm fast down before his own Breast; then let some one trip away the Stool, that the Patient's Weight may cause the Bone to fnap in. (5.) Set the Patient near some Post, and let a Pole, with a Prominence fix'd in its middle. (which we call a Colt-Staff) be held between two strong Men, then let the Patient's Arm be put over the Pole, with the Prominence fixed close to his Ribs, up close to the Head of the Bone; then let your Affistant hold down his Arm, extending it very strongly, and pressing it towards his Ribs, or else with a Pully fastned to the Post.

and to his Arm above his Elbow, to make Extenfion that way; and then you must stand on the
contrary side, with both your Hands on each side
of the Scapula, to press it down, and to keep the
Patient firm in his Seat, and govern the Operation. (6.) Over a Ladder, which is to be managed much as that over a Man's Shoulder. (7.) By
the Glossocium or Commander, which is to be
used with Caution in tough Bodies, and where the
Bone has been long out. These are the most
common ways now in use. This being done,
apply your Dressings, p. ce a good Boulster under
the Arm, and roll him up, and bleed him, and
keep his Arm quiet, till the Joint gathers Strength,
and that the Instammation and Swelling are over.

Q. Suppose a Dislocation of the Shoulder, and a Fracture on the Os Humeri; which would you reduce

first ? And wby ?

A. I would reduce the Diflocation first, because if I did not, I should displace the fractur'd Bones, by reducing the Dislocation after the Fracture, and and so cause new Work, and Pain to the Patient, and act inartificially and preposterously.

Q. We will now discourse of the luxated Elbow, pray tell me how many ways is the Ulna or Cubit

luxated?

A. Forward or backward, outward or inward, and fometimes the Radius follows, and fometimes it does not. If it be luxated forward, the Arm cannot be bent; the Cubit is shorter; a Tumor appears on the fore-part, and a Cavity behind; if backward, the contrary: and so if outward or inward, by the same Tumor and Cavity you may judge of it.

Q. How is it to be reduced?

A. If the Luxation be forwards, Extension must be made obliquely by two Assistants; then let a hard hard Body of Linen be placed on the infide of the Joint, and over that a Girt so long as that you may put your Foot into it. Then whilft they make due Extension, by your Foot in the Girt, and by your Hands) bend it, and reduce it; or in tender Bodies it may be done by your Hands alone. If the Luxation be backwards or recent, it is easy to reduce by the Hand alone, if an oblique Extension be made very strong. If it be slipt inwards or outwards, it is to be reduced the contrary way; then embrocate cum Ol. Rosar. & Aceto, and apply your Restrictives, make decent Bandage, place the Arm in a middle Posture, bleed the Patient, keep him to a cooling Diet, and his Body soluble.

Q. How many ways may the Carpus, or Wrist, be

diflocated ?

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A. Inward, outward, forward and backwards; but commonly forward.

Q. What are the Signs of this Luxation?

A. A Tumor on the fore-part, and the Fingers cannot be bent; if it be backward, the Fingers cannot be extended: if it be inward or outward, a Tumor appears on one fide, and a Cavity on the other.

Q. How are these Luxations reduced ?

A. If the Luxation be either forward or backward, the Hand must be laid upon some Table, with the back downwards, if the Dislocation be forwards; and if it be backwards, the contrary: then let good Extension be made, and with your Hand sorce the Bone into its place.

Q. How are the luxated Bones of the Carpus and

Metacarpus to be reduced?

A. By a moderate Extension, laying the Hand on a Table, and some hard Substance put under it, &c. Then apply fit Medicines, Rolling, &c. as has been taught.

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Q. How many ways may a Thigh be diflocated?

A. Outwards, inwards, forwards, and backwards; but oftenest inwards, because there the Edge of the Acetabulum is lowest, &c.

Q. What are the Signs of such a Luxation?

A. If the Luxation be inwards, that Thigh appears longer than the other, and the Knee, Leg, and Foot stands outwards, and a Tumor appears near the Perinæum. If the Luxation be outwards, the Signs are contrary, that Leg is shorter; near the Perinaum there is an Hollowness, the Knee. Leg, and Foot, stand inwards, and the Heel cannot touch the Ground. If the Diflocation be forwards, the Thigh cannot be bent, Urine is stopt, the Groins fwell, and the Buttocks appear wrin-If it be diflocated backwards, the Leg cannot be extended, that Thigh is shorter than the other, that Heel cannot touch the Ground, the Groin appears loofe, and the Head of the Bone flicks out backwards.

Q. How is this Diflocation to be reduced?

A. It is with great difficulty that it is done. especially if it has been long out of place; however, if it be new and in tender Bodies, it may be reduced even with small Extension sometimes, if you fuddenly bend the Thigh. (2.) Let an Affistant hold the Patient fast by the Armpits, and another take hold of the Thigh above the Knee, with both his Hands, and make Extension, then do you with your Hands force in the Bone. (3.) Let a wooden Pin be drove into the Floor, then lay the Patient flat on his Back, with the Pin between his Legs, placed close up to the Head of the Bone, with a thick hard Boulster between them; then make fast the contrary Leg and Thigh, and endeavour to keep his Body very steady; then spply a strong foft Roller several times about the

the diflocated Thigh, to which a Cord or Pully must be fixed, with its other End at some distance; then an Assistant must pull strongly upon the Cord, to make Extension, whilst you manage the Bone to reduce it with your Hands.

Q. How many ways may the Knee be diflocated?

A. Outward, inward, and backward.

Q. What are the Signs of it?

A. They are very evident. There is an unusual Tumor on one side, and a Cavity on the other, Motion is weakened, and the Figure is depraved.

Q. How is it to be reduced?

A. Let two Affistants make Extension, one above, and the other below the Knee, near the Foot; and you must at the same time force the Bone into its place; then dress and roll, as has been directed.

Q. How many ways may the Ancle be luxated?

A. Inward, outward, forward, and backward.

Q. What are the Signs of it?

A. If it be diflocated inward, the Sole of the Foot turns outward; and if diflocated outward, it turns the contrary way: If forward, the broad Tendon of the Heel, called Nervus Hectorius, or Tendo Achilles, is very stiff and hard, and the Foot is less: If the Diflocation be backwards, the Heel is almost hid, the Sole of the Foot seems bigger, and the Foot longer.

Q. How is it to be reduced?

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A. By good Extension and Reposition, and cured as other Luxations; only the Patient must there keep his Bed longer, (at least thirty or forty Days) otherwise the Joint will slip out again upon every slight Occasion; or at best, will be a long time weak, &c.

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Q. What are those which Surgeons call Vulnerary

Herbs ?

A. Such as these; Scabiosa, Sanicula, Auric. Muris, Tanaset. Verban. Symphit. Hyperic. Bistort. Tormentil. Vinc. per Vinc. Centaur. min. Borag. Marrub. Betonic. Valerian. Alchimil. Card. Ben. Flor. Cordial. Agrimon. Osmund. Regal. Scordium, Ulmaria, Tussilag. Plantag. Bursa Pastoris, &c. Out of which, Drinks are to be made, as Occasion offers.



CHAP. LIII.

Of Phlebotomy or Blood-Letting.

Q. W HAT are the Use and Effects of Phile-

A. By it the Blood is altered both in Quantity

and Quality.

Q. What Inconveniences follow its too frequent

Ule ?

A. The Blood thereby becomes more sulphureous and less salt, and so disposes Men to be both feverish and fat.

Q. That it gives Relief when Blood offends in Quantity, is plain; But how does Phlebotomy correct the Temperament of the Blood, when it offends in Quality?

A. If any thing contrary to it be mixed with its Mass, the Blood flowing out, upon a Vein being opened, carries much of that foreign Matter out with it, by which the rest is more easily conquered and expelled; for the Orifice being once opened, Nature rallies all her Force to expel her Enemy; the fermenting Blood gathers together the

the heterogeneous Particles, and excludes them with the first Blood that flows; from whence it is, that in breathing a Vein, the first Porringer of it shall be mere Putrefaction; the second something better; and the third very good Blood, as every Surgeon may observe.

Q. Does Bleeding restore the Blood to its right

Temperament, when it is declining from it?

A. Yes: for when its Mass, by the Sulphur or fixed Salt is exalted, and degenerates into a saline Sulphureousness; some of it being let out, a new Fermentation immediately arises, and the Sulphur and fixed Salt being overcome, the Spirits recover their Dominion. And for this Reason, Phlebotomy is by some administred as well in the beginning of a Consumption, Scurvy, and Jaundice, as in a Fever; but Caution is to be used.

Q. Do all Diftempers indicate Phlebotomy?

A. No; if the Mixture of the Blood becomes very bad, as in the Plague and malignant Fevers; or if the Discrass of the Blood shall be such, that the Spirit, volatile Salt and Sulphur shall be depressed, and the terrene or aqueous Particles predominate, then the Blood ought to be preserved and not sent out; wherefore in a [consirmed] Consumption, Cachexia, Dropsy, &c. if you bleed, you murder the Patient.

Q. From what Part of the Body is it best to draw

Blood ?

A. According to the Laws of Circulation, it should feem not much to matter from what Part it be taken, so it be but large enough; yet it equally flowing from all Parts to the Vena Mediana of the Arm, we generally open that; notwithstanding, (according to common Practice, but how rational that is, I dare not determine) if it ought to be called back from the superior Part of the Body

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to the inferior, (as when the Menstrua or Hemorrhoids are suppressed) it is thought most proper to bleed in the Foot.

Q. At what time of the Disease is Phlebotomy to be celebrated?

A. At the Beginning or Increase, but hardly in the State or Declination.

Q. Wby?

A. Because at that time Nature is busy, endeavouring a Crisis, and the Blood very much ferments, so that Nature ought not to be disturbed. Besides, at the height of the Disease, if Nature is Conqueres, she does not want this Relief; and if she be overcome, she will not endure such an Evacuation.

Q. What time of the Day is best for the Operation?

A. When there is a Necessity, it may be done at any Hour of the Day or Night; or (otherwise) a Morning is rather to be chosen, when the Stomach is empty, and the Vessels emptied by Sweat, the Blood quiet, and appearing free from any serous Filth; or it may be deferred till the new Juice of things eaten be passed into the Blood, for the Vessels being emptied, are both apt to snatch the crude Chyle, and what is disagreeable to the Blood also, into themselves.

Q. What Quantity ought to be taken away?

A. In a burning Fever, Pleurify, Peripneumonia, Quinzy, Apoplexy, and other grand Diseases, that have their Original from a Phlegmonick Incursion of the Blood, if it be not taken in a large Quantity, it does more harm than good: And on the contrary, in weak and tender Constitutions, and in Dropsies and Cacochimia's, it is not to be rashly done; or if allowed for particular Reasons, it must be in small Quantities.

Q. Is a large or small Orifice, the most convenient?

A. All ingenious Men give their Votes for a large one.

Q. Why fo?

A. Because if it flows with a small Stream, or Drop by Drop, the Mass of Blood sermenting, will separate into Parts, and what is more Spiritous will burst out, whilst the thicker remains behind; besides an Ecchymosis and Tumor, is apt to remain after it.

Q. Wherein lies the Danger in opening a Vein?

A. In pricking an Artery or a Tendon.

Q. How shall we know how to avoid it ?

A. In opening the Jugular Vein, or the Vena Cephalica, there is no Danger, except a Man is mad, and will plunge in his Lancet without Thought: But in the Mediana and Basilica there is; for under or near the one lies a Tendon, and under the other an Artery.

Q. What is a Tendon?

A. It is a fimple Part, diffused thro' the whole Body of a Muscle lengthways, which in some part is united, and in some divided and stuffed with Flesh; softer than a Ligament, and harder than a Nerve; it is the principal Part of a Muscle, and the chief Instrument of Action.

Q. What is an Artery?

A. It is a common Organ, round, long, and hollow, confifting of a double Coat, proceeding from the Heart, fit to carry Blood and vital Spirits to all Parts.

Q. What Signs follow a Tendon being pricked?

A. Extreme Pain, a Flux of Humours, a Mortification, Fever, Ravings, and Convultion.

Q. What are the Signs of an Artery wounded?

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A. The Blood is very florid, it flies out impetuoully, by Leaps and Spurts, and will not flop, nor fuffer the Orifice to heel.

Q. How are the Hurts of these remedied?

A. With great difficulty; but as to the particular Cure, fee Chap. XLV. as to the Hurts of a Tendon: But if an Artery be punctur'd, Ligature is to be made above the Puncture, and the superficial Parts carefully divided, to come at the Artery, and then by paffing a Silver Hook or Needle under it, Ligature is to be made, both above and below, and divide the Artery at the Puncture, and the two Ends will in some time digest off, and the Wound may be cured as other Wounds. All other ways by Aftringents, or by the actual or potential Cautery, are more dangerous, and precarious; tho' if this cannot be done, those may, some of them, be attempted; for it must be done, one way or other, or the Patient will lose his Life or Limb.

Q. Why is so small a thing as the Puncture of an Artery of such difficult Cure, when that of a Vein

beals of itself?

A. Not that the Coats of an Artery are more Nervous than those of a Vein, but because an Artery (like the Heart it self,) ought constantly to shake and beat; its Fibres repeating perpetual Systele and Diastole: wherefore a small Puncture being made in its Pipe, by reason of the continual Motion of the Vessel, and the Effux of Blood, it remains very often incurable, or at best, of very difficult Cure.

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CHAP LIV.

Of Vesicatories or Blisters.

Q. HOW do Vesicatories, or Blistering Medi-

A. The manner how potential Fires operate, is best found out by enquiring how actual Fire does raise a Blister; of which it is observable, that the fiery Particles, being not too vehemently applied, penetrating the Cuticula, without Solution of Unity, enter under the Cutis it felf, where the Ends of the Blood-bringing Vessels, and of the Nerves, and nervous Fibres, are terminated; and there do variously twist together these, altering their Position, and perverting the Structure of the whole Texture of the Skin; infomuch that from the Veffels being made angry, the watry Humour being mixed with fiery Particles, and therefore rejected both by the Blood and nervous Juice, is spewed out in great Quantities. Now this Lympha, because it cannot pass thro' the Cuticula, separates it from the Cutis, and raises it into that bladdery Form which we call a Blifter. So Cantharides being applied to a Part, and heated by its Effluvia's and so provoked to exert their poisonous Energy, do abundantly dispatch out fiery Particles, which penetrate the Cuticula without any Laceration; they are thrown upon the Skin, where they first act upon the Spirits, and then upon the Humours and folid Parts; they diffolve the Humours, excite painful Convulsions of the Fibres; and the Humours being dissolved, are constrained to separate into Parts; and its watry Part, which is tainted by

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the venomous Particles of the Cantharides, is rejected by the other Juice, and fpewed out between the Cutis and Cuticula, and so raises a Blister.

Q. Why does Blistering often bring a Heat and Scalding in the Water, and sometimes a Dysuria or

Strangury?

A. The ferous fuice cannot always bear all the sharp Parts of the Medicine back the same way they entered, but sometimes armed with some of its venomous Particles, slies back into the Mass of Blood, and circulates with it, and is ejected thro' other Emunctories, and offends some tender Channels in its Passage; and amongst the rest, being separated by the Kidneys; it hurts them, the Neck of the Bladder and urinary Passage, and corrodes the Parts, and so causes Pain in making Water, &c.

Q. What gives Relief in that Cafe?

A. Nothing better than a Decoction of Mallows, either in Milk or Water. Also Camph. Ass. in Conserv. Cynosbat. once in three Hours; which Method will effect a Cure, altho' the Cantharides have been taken inwardly, if not too many.

Q. In what Diseases are Vesicatories profitable?

A. In all cutaneous Distempers, also in malignant
Fevers, Head-Ach, Vertigo, Sopor, in Defluxions
of the Eyes, Nose, Palate, or Lungs, Convulsions,
Epilepsy, Apoplexy, Lethargy, &c.

Q. In what Diseases are they hurtful?

A. Those that are subject to the Stone, Gravel, or Strangury, find Vesicatories very vexatious; wherefore they are there to be forbore, unless a very urgent Necessity indicate the contrary.

Q. Why is it an ill Sign when they do not rife as

usual?

A. Because it shews that the Animal Spirits are dejected or diminished to a great degree; and all

the Art of Man cannot make them operate on a dead Body; from whence it's plain, that when they do operate, they do it upon the Spirits. Wherefore when a good Vesicatory is applied, and no Blister arises, we have Reason to sear that they are exhausted, and so consequently Death at hand; yet this Rule is not without its Exceptions, as I have sometimes found.

Q. Our common way of strowing the Powder of the Fly, over the common Plaister, sometimes causes many small Blisters round about, and a very little or no Blister where it ought to be; to the vexation of the Patient, and Scandal of the Surgeon: Is there no way to compose a Vesicatory Plaister, that will stick, and do its Office, without strowing it over with Powder of the Flies?

A. Yes; I here give you a Recipe that never fails, if the Materials are good.

Resin. clar. stiis. Cer. slav. zvj. Sev. pro Empl. Melilot. stij. Pic. Burgund. zxx. Pulv. Cantharid. select. stij. Ms. & slat Empl. S.A. This you may depend on, without adding fresh Flies; but if the Heads and Wings of the Flies were first thrown away, it would be the better.



CHAP. LV.

Of Fontanels or Issues.

Q. IN what Parts are Issues generally ordered to be made?

A. If it be for a general Evacuation of Humours from the whole Body, let it be made in the Arm; or if it be for Revulsion from some particular Member, make it far distant from the Part affected;

or if it be for Evacuation from fome particular Member, make it near the Part affected.

Q. In what particular Parts of the Body, and for the Cure of what Diseases, are Issues generally made?

A. Some for evacuating Humours out of the Brain, prescribe one on the Coronal Suture; or in the fore-part of the Head over the Sagittal Suture; or in the hinder-part of the Head about the beginning of the Lambdoides: fome make it in the Nape of the Neck; fome on either fide the Spine, or between the Shoulders, or behind the Ears. Issues in the Back are accounted helpful in Gouts, Stone, and Cholick, by evacuating the Matter that feeds them; those between the Shoulders on the Arm and Thigh, help postoral Difeases; and (they fay) one made between the Ribs, helps a Confumption: they are made in the Groin for Weakness of the Loins, and to cure rebellious Sciatica's. Sometimes they are made on the Thigh; but it is far better to make them on the infide of the Leg, a little below the Knee.

Q. In what Part of the Member is an Iffue most

fafely cut ?

A. Not in the Body of a Muscle, but in the distance between them, because of the Tendons, which the Pea pressing upon, may cause Pain, Instammation, Fever, and worse Accidents; wherefore let it be made clear of all large Vessels and Tendons.

Q. How are they to be made?

A. Either by Incision, or Caustick, about both which it is needless to say any thing, the Operation is so common.

Q. In what Diseases do they principally prevail?

A. In almost every Disease in the Head, outward or inward; Convulsion, Sore Eyes, King's-Evil,
Head-Ach, Cramp, Cough, and Consumptive Spitting,

an Afthma, and in Hypochondriac, Hyfteric and Ca-cheffical Cases.

Q. Suppose an Inflammation seizes it, how is it to

be got off?

A. By emollient Fomentations and Cataplasms, such as are before prescribed; also evacuate by bleeding and purging, and keep the Patient to a slender Dict.

Q. But if it runs too much, a thin, stinking, discoloured, ichorous Matter, how is this to be re-

medied?

A. Let the Patient use a regular Course of Diet, without any Excess; let him avoid small Wines, and Cyder, and all acid Liquors; let the Issue be kept very clean, and dressed twice a Day.

Q. But what if it tends to Putrefaction?

A. Then in the room of a Pea, make a Pill of Virgins Wax, incorporated cum Santal. Rub. & Virid. Æris, and put it in, and use a Fomentation twice a Day, &c. or dissolve Vit. Rom. 3j. in Aq. Font. Zviij. in which put a quantity of common Peas, and let them lie a Night, then take them out, and dry them well, and use them as other Peas; and these (as I am told) are much used in our Hospitals, at this Day.

Q. But if it grows dry, and will not run, what

will you do?

A. Then I would use a Pea armed with Epispactic Plaister; or Peas of Bex; or of Hermodactils alone, which is excellent.

Q. What Humours do they evacuate?

A. All those gathered within the Pores of the Skin, or Glands, are brought thither by the Arteries or Nerves, have their Conflux to Islues, and not only so, but the ferious Recrements under the Skin, which are wont to be transferr'd, or creep between the Interstices of the Muscles, or Membranes

branes from place to place, have their Passage out at the Fontanel also.

Q. Here has been a great Noise about Dr. Colbatch's vulnerary Powder, which stops all Hemorrhages, and cures Wounds almost miraculously: Also the famous Stiptick Water, prepared by our great Oculist, Sir Neither-write-nor-READ: And the celebrated Salt of Lemons. Pray what is your Opinion of them, and how do you think they are prepared?

A. As to the vulnerary Powder, it is certainly a very good Medicine; and according to the following Recipe I have prepared it, and find it even the fame with the Original: And which I shall

here communicate.

R. Limatur. Martis, q. v. affunde Ol. Vitriol. ad trium digitorum supereminentiam, post Ebullitionem filtretur. Hujus Olei p. 1. Sacc. Saturni. p. 2. simul ad siccitat. evaporentur; pulv. qui relict. est, Spir. Vin. Rect. destagrentur. & deinde servetur ad usum.

The Use and its wonderful Effects may be found

in the Doctor's printed Book.

As to the Stiptick, I take it to be but a very indifferent Medicine; but such as it is, I here shall communicate the Prescription, being very sure, that it is the same with the Original, as any Person may find by comparing them together, viz.

R. Aq. Font. Cong. j. Alum. com. fbj. Aloes opt. 3j. Cochinel. pulv. subtiliss. 3j. coq. Sem. Hor.

& filtretur.

This Medicine may be of use inwardly, to restrain Fluxes of Blood, either by Urine or otherwise; but that it is of such external use as the Gazette has formerly made us believe, no wise Man can suppose.

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As to the Salt of Lemons, every Chymist knows, that Lemons afford so little Salt, that the very Pretence of selling it at a moderate Price, shews it to be a mere Trick. However, what is called the Purging Salt of Lemons, I here give you the Recipe of; and is certainly a pretty Cathartick.

R' Tart. vitriolat. Itij. Refin. Jalap. Zij. Spir. vel Essențiae Limon. Z's. misce S. A. Powder what is to be powdered; and mix them with the Spirit, of Essence, and keep them in a close Box from Air. Dose Zs. or Dij. plus minus.

The End of the Chirurgical Part.





CHAP. LVI.

Of the most Principal Things necessary to be first known and understood in Anatomy, by every young Surgeon.

TT HAT is Anatomy? A. It is an artificial Diffection of the Body, in order to know its Parts; and is divided into Ofteology and Sarcology.

Q. What is Ofteology?

A. It is that part of it which treats of the Bones, Cartilages, &c.

Q. What is Sarcology?

A. It is that part of it which treats of the Flesh and the foft Parts; and is divided into Splanchnology, Myology, and Angeilology.

Q. What is Splanchnology?

A. It is that part which describes the internal Parts, especially the Vifcera.

Q. What is Myology?

A. It is a Description of the Muscles.

Q. What is Angeiology?

A. A Description of the Nerves, Veins, Arteries and Lymphaduct Veffels.

Q. What is a Bone?

A. It is a similar Part, dry, cold, hard, inflexible and infensible, giving Strength and Form to the whole Body.

Q. What is a Cartilage or Griftle?

A. It is a fimilar Part, cold, dry, flexible, but insensible, and not so hard as a Bone, except by Age it degenerates; it has neither Membrane,

Nerve.

Nerve, Cavity, nor Marrow; but they have a Mucosity that preserves them flexible: their use is, to cover or line the Bones in their Articulations, for their easier Motion.

Q. What is a Nerve?

A. They are the Organs of Sense, long, round, white Bodies, covered with two Membranes, made of the Dura and Pia Mater, composed of Fibres, springing from the Cortical Part of the Brain and Cerebellum.

Q. What is a Tendon?

A. It is a fimilar Part, of a peculiar kind, diffufed through the whole Body of a Muscle lengthavays, which in some part is united, and in some divided and filled with Flesh, but mostly possesfing the Head and Tail of the Muscle, yet only in such as have Bones to move. It is softer than a Ligament, and harder than a Nerve; or it is a Prolongation of the Fibres freed from the Parenchyma, and cloathed with the investing Membrane of the Muscles.

Q. What is a Muscle?

A. It is an Organical Part, and is a Texture of Fibres, confishing of Nerves, Arteries, Veins, and Lymphatick Vessels, and is the Author of voluntary Motion. It is called, Mus, a Mouse; either because it resembles a slead Mouse, or else from Mus, to contract, which is the Action of a Muscle.

Q. What are the Arteries?

A. They are long, round, hollow Veffels, confifting of four Coats, commencing from the left Ventricle of the Heart, where they receive the Blood that they distribute to all the Parts of the Body.

Q. What are the Veins ?

A. They are Membranous Conduits, confifting of four Coats, which receive the Blood from all Parts of the Body, in order to convey it back to the Heart.

Q. What is a Ligament?

A. It is a folid and white Substance, foster than a Griffle, and harder than a Nerve; being of a middle Nature between a Cartilage and a Membrane: its Use is to tie the Parts of the Body together, chiefly the Bones.

Q. What is a Fibre?

A. It is a Body like a Thread; slender, tenacious and irritable, made for the sake of Strength and Motion.

Q. How many Bones are there in the whole Body?

A. Our Moderns generally reckon 249.

Q. As how?

A. In the Cranium — — — — 14
In the Face (reckoning the Os Hyoides) — 46
In the Trunk — — — 67
viz. In the Spine thirty two, in the Breaft

viz. In the Spine thirty two, in the Breaft twenty nine, and the fix Offa Innominata, viz. the two Ischia, the two Ilia, and the Offa Pubis.

In the Arms and Hands — — 62
In the Legs and Feet — — 60

In ail 249

Q. How are the Bones joined together?

A. Either by Articulation or Symphysis.

Q. What is Articulation?

A. It is the natural Conjunction of two Bones touching one another by their Extremities; there are two kinds of it, viz. Diarthrofis and Synar-throfis.

Q. What

Q. What is Diarthrofis?

A. It is an Articulation, in which the Motion is manifest; and is divided into (1.) Enarthrosis. (2.) Arthrodia. (3.) Ginglimus.

Q. What are they?

A. Enarthrosis is when a large and long Head is received into a deep Cavity, as the Head of the Os Femoris into the Cavity of the Os Innominatum. Arthrodia is when a superficial Cavity receives a slat Head, as when the Head of the Humerus is received into the Glenoide Cavity of the Scapula; or the Heads of the Metacarpus or Metatarsus into the Cavities of the first Phalanx, or rank of the Bones of the Fingers, &c. Ginglimus is an Articulation in which two Bones do mutually receive one another, as the Bone of the Carpus, which is received into that of the Os Cubiti, and the Os Cubiti into that of the Carpus.

Q. What is Synarthrofis?

A. It is an Articulation fo strong and firm, that it has no distinct Motion; and is divided into Sutura, Harmonia, and Gomphosis.

Q. What are they?

A. Sutura or Suture, is when two Bones are joined together, like the Teeth of two Saws; and this is only in Bones of the Scull. Harmonia is an Articulation, wherein the Bones are joined in a fimple streight Line, or a Circular; as the Bones of the Face, Nose, and Palate. Gomphosis is a compact Articulation, when one Bone is sunk or driven into another, like a Nail into a Piece of Wood; and thus the Teeth are fastned into their Sockets.

Q. What is Symphysis?

A. It is either with some intermediate Substance, or without it; that without it, is like a Tree and its Graft: and thus Nature by hardening the Bones of the lower Jaw, and the Epiphysis belonging to it, does fo join them, that they make one continued Body. Symphifis with some intervening Body, is divided into, (1.) Synneurofis. (2.) Sysarcosis. (3.) Synchondrosis.

Q. What are they?

A. Synneurosis, is when Bones are united by means of intervening Ligaments, as in the Articulation of the Rotula with the Tibia. is when Bones are joined by means of Flesh, as the Os Hyoides with the adjacent Parts, &c. Synchondrofis, is when Bones are united by a Cartilage, as the two Bones of the Os Pubis, &c.

Q. Are there no other Kinds of Articulation?

A. Yes; the Articulation of the Ribs with the Vertebræ of the Back, and the Bones of the Carpus and Tarsus, one amongst another, and that is called Amphiarthrosis; and there are some others of leffer moment, which I shall admit for Brevity's Sake.

Q. What is an Apophysis of a Bone?

A. It is a Protuberance, which rifes on the Superficies of the Bone, with which it has the very fame Continuity; and fuch is the Prominence you fee on the Os Petrofum, called Apophysis Mastoides.

Q. What is an Epiphysis of a Bone?

A. It is an Apendage, or additional Bone, joined to the principal by a simple Contiguity; and fuch is the Prominence you fee on the Os Tarsi: Its use is, (1.) to strengthen the Articulation; and (2.) to infert divers Muscles and Ligaments.

Q. Has every Bone its Epiphysis?

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A. No; the lower Mandible has none of them, the Ribs have each of them one; the Bone of the Leg and of the Arms have each of them two; those of the Os Ilium three; those of the Femur, four; and each Vertebra five of them: In Infants they are Cartilaginous, but harden as Years advance, till about the 20th Year they convert into Bone.

Q. How are Bones nourished?

A. By Blood; though the Marrow does ferve to moisten them, as the Fat does other Parts; they all contain a Marrow, yet they want Sense, though they are all (except the Teeth) covered with their Periosteum, which is very sensible, being a thin, nervous Membrane.

Q. What is the Spine?

A. It contains all the Bones from the first Vertebra of the Neck (called Atlas) unto the Coccyx or Rump-Bone.

Q. How are the Vertebræ divided?

A. The Neck has feven, the Back twelve, and the Loins five; in all twenty-four.

Q. How many Ribs are there in the Body?

A. They are in Number twenty-four, viz. twelve on each fide; the feven Superior are called true, and the five Inferior false, or fhort Ribs.

Q. How many Teeth has a full-grown Person?

A. Sixteen in each Jaw, in all thirty two; and consist of three sorts, viz. (1.) Incisores or Cutters, and are those which we call the Fore-teeth; each Jaw has sour of them, and they have but one Phang a-piece. (2.) Canini, or Dog. Teeth, they are in number sour; in each Jaw there are two, at each side of the Cutters one; they are otherwise called Eye-Teeth, and have but single Phangs, (3.) Molares or Grinders, because like Mill-Stones they grind the Meat; they are in number twenty, (viz.)

(viz.) five on each fide of each Jaw, the two foremost have but two *Phangs* at most, but the others commonly three or four.

Q. Name the Sutures?

- A. They are the Coronal, Lambdoidal, and Sagittal. The Coronal Suture extends from one Temple to another, and joins the Os Frontis with the two Bones of the Sinciput or fore-part of the Head. The Lambdoidal Suture is fo called, because it is made like the Greek Letter A; it is opposite to the former, and unites the Os Occipitis with the two Bones of the Sinciput behind. The Sagittal Suture is placed on the superior Part of the Head, and goes from the Coronal to the Lambdoidal.
- Q. How many forts of Hurts is the Scull subject to?

A. (1.) Depressio, a Depression.

(2.) Concameratio, a Vault- Called Compound ing. Fractures in Cranio.

(3.) Excisio, a Part cut a-

- (4.) Fractura, a Fracture in a strict Sense, where both Tables are broke.
- (5.) Sedes, or the Print of the Weapon wounding.

 (6.) Rima, Fistura, or Chink. Commonly terming.

(7.) Contusto, a Contust- tures in Cranio.

- (8.) Diffolution of a Suture, (viz.) when it gapes or separates.
- (9.) Collision of a Suture, (viz.) a Contusion of its Brims.
- (10.) Contra Fissura, a Fissure in the opposite Part to that where the Blow was received.

Q. What

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Q. What are the Ulna and Radius, Tibia and Fibula?

A. They are the greater and leffer Bones, or Fossiles of the Arm and Leg.

Q. What is the Carpus?

A. It confifts of eight Bones, and is fituated between the lower Articulation of the Ulna and Metacarpus.

Q. What is the Metacarpus?

A. It is that Part which is between the Carpus or Wrist, and Fingers, and is composed of sour Bones.

Q. What are the Bones which make the Tarfus or

Instep?

A. It consists of seven Bones, (viz.) the Astragalus, Calcaneum, Naviculare, Cuboides, and the

three Cuneiformia.

The Astragalus (or Talus) has in its upper part a convex Head, which is articulated with the Tibia and Fibula by Ginglymus; its fore-part, which is also convex, is received into the Sinus of the Os Naviculare: Below, towards the hind-part of the under-fide, it has a moderately large Sinus, which receives the upper and hinder-part of the Os Calcis.

The Os Calcaneus, or Calcis, or the Heel-Bone, lies under the Astragalus, to which it is articulated by Ginglymus: Behind, it has a large Protuberance, which forms the Heel, and into which the Tendon Achillis, or large Tendon of the Heel, is inserted.

The Os Naviculare lies between the Aftragalus and the three Offa Cuneiformia, and has its Name from the refemblance it bears to a Ship, and is therefore fometimes called Cymbiforme, from its likeness to a Boat: Behind, it has a large Sinus; and I

before, it is convex, distinguished into three Heads.

The Cuboides, or Os Cubiforme, is joined behind, to the Os Calcis; before, to the two outer Bones of the Metatarfus; and on its infide, to the third

Os Cuneiforme.

The Ossa Caneiformia are so called from their Wedge-like Shape, and lie all three at the side of one another: The inmost is the largest, and the middlemost is the least; their upper-side is convex, and their under, concave; by that means hindering the Muscles and Tendons of the Feet from harm, when we go.

Q. What is the Metatarfus?

A. All that part between the Instep and Toes, and confists of five Bones.

Q. What is properly called the Thorax?

A. The Thorax or Breast, is the whole Cavity that reaches from the Claviculæ or Collar-Bones, to the Diaphragma, or Midriff; it contains the Heart, Lungs, part of the Windpipe and Gullet, the Arteria Magna, Vena Cava, and Ductus Thoracicus.

Q. How many Nerves are there in the whole

Body ?

A. They are counted by Pairs, and in the whole there are forty Pair of them; ten Pair of which take their rife from the Medulla Oblongata; and thirty from the Medulla Spinalis, which thirty make their egress by sixty Perforations in the Spaces between the Vertebræ; and though all have their exquisite Sense communicated to them from the Brain, yet the Substance of the Brain itself is wholly insensible, which is very amazing?

Q. What is the Cerebellum?

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A. It is a marrowy windy Body, that lies under the Brain, in the lower and hinder-part of the Head; its lower part is continuous with the Brain, but the upper is fever'd from it by the Folds of the Dura Mater.

Q. How many Muscles are there in the whole

Body?

JA. They are in number four hundred and thirty four; thus, (viz.) in the Forehead two, in the Occiput two, the Eye-lids fix, the Eyes twelve, the Nose seven, the external Ears eight, the internal Ears four, the Lips thirteen, the Tongue eight, the Uvula four, the Larynx fourteen, the Pharynx seven, the Os Hyoides ten, the lower Jaw twelve, the Head fourteen, the Neck eight, the Shoulder-Blades eight, the Arms or Shoulder-Bones eighteen, the Ulna twelve, the Radii eight, the Wrists twelve, the Fingers forty-eight, Respiration fifty-seven, the Loins fix, the Abdomen ten, the Testicles two, the Bladder one, the Yard four, the Anus three, the Thighs thirty, the Legs twenty-two, the Feet eighteen, the Toes fortyfour.

Q. What is the Abdomen?

A. It is all that Cavity which extends from the Diaphragma to the Os Pubis.

Q. What are the five Pair of Muscles of the Ab-

domen called?

A. (1.) Oblique Descendens. (2.) Oblique Ascendens. (3.) Rectum. (4.) Pyramidalis. (5.) Transversalis.

Q. What is the Linea Alba?

A. It is a concourse of all the Aponeuroses of the Muscles of the Abdomen. It extends from the Cartilago ensistemis or Xiphoides, to the Os Pubis.

Q. What are the Number and Names of the In-

testines or Guts?

A. They confift of three Coats, and are about feven times the length of the Person; they are in Anatomy divided into six, (viz.) three small, and three great ones; the small are the Duodenum, Jejunum, and Ilium; the great ones are the Cacum, Colon, and Restum.

Q. What is the Epigastrick Region ?

A. It is the superior part of the Abdomen; it begins at the Cartilago Ensisormis, and ends two Fingers breadth above the Navel; its middle part is called Epigastrium, which incloses the small Lobe of the Liver, part of the Stomach, with its inferior Orifice, and the middle part of the Colon.

Q. What are the Hypocondria?

A. The two fides of the Epigastrick Region, are called the right and left Hypocondrium; the right contains the great Lobe of the Liver and Gall-bladder, and the left contains the greatest part of the Stomach and Spleen.

Q. Which is the Umbilical Region?

A. It begins two Fingers breadth above the Navel, and ends two Fingers breadth below it; its middle part is called the Navel, and its two fides the Loins; the Navel includes the greatest part of the Jejunum and Mesentery; the right Loin contains the right Kidney, the Cacum, part of the Jejunum and Colon, and the left Loin the left Kidney, and some part of the Colon and Jejunum.

Q. Which is the Hypogastrick Region ?

A. It is called Hypogastrium; its Sides are the Ilia or Flanks; under it we find the Rectum, Bladder, and Matrix: the Ilia are so called, because they contain the Gut Ileum; the Hypogastrium is divided into the Pubis and Groins.

O. What are the Venæ Lacteæ?

A. They are slender pellucid Vessels, having but one Coat, sent in vast Numbers thro' the Mesentery; their Use is to carry the Chyle from the small Guts to the vesicular Glands of the Mesentery, and so to the Receptaculum Chyli: they are of two forts, and called primi & secundi generis.

Q. What is the Mesentery?

A. It is a membranous Part, which ties most of the Guts together, and keeps them from tangling; it has two proper, and one common Membrane; it contains Veins, Arteries, Nerves, Lymphaducts, Glands, and Venæ Latteæ.

Q. What is the Lympha?

A. It is a fermentation, Liquor, separated from the serous Part of the Blood in the conglobate Gland, impregnated with volatile Salt, and sulphureous Particles; which, when brought to the Vasa Chylisera, makes the Chyle thinner, and apt to dilate easily in the Heart; and the same it does by the venous Blood in the Veins, if it is too thick. It differs from a Serum; for if set in a Spoon in the cool, it will turn to a Jelly. The Lymphaducts are Vessels long, hollow, small, and knotty, having many Valves, which suffer the Lympha to pass to the Chyliserous Vessels, (and some Veins) but hinder its return.

Q. What is the Larynx?

A. It is the Head of the Windpipe.

Q. What is the Pharynx?

A. Only the Orifice of the Oefophagus, dilated to a great Extent.

Q. What is the Epiglottis?

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A. It is the fifth Cartilage of the Larynx, and ferves, like a Trap-Door, to keep any thing from falling into it.

Q. What are the Spinalis Medulla, and Spinalis

Oblongata?

A. The Spinalis Medulla, or Spinal Marrow, is only a Production and Continuation of the Brain; 'tis divided into two parts, one of which is lodged in the Brain, and is called Medulla Oblongata, and the other contained in the Vertebræ, which is properly called Medulla Spinalis. The Medulla Oblongata is of a Substance harder than the Brain; and the Medulla Spinalis more solid than that; being a Rope of Nervous Fibres, distributed to all the Parts of the Body, and gives them exquisite Sense and Motion; it has three Coats, one of which proceeds from the Dura, and the other from the Pia Mater.

Q. Why has the Heart a Pulsation, and why is the

Blood red?

A. No (satisfactory) Reason, that we know of, can be given for either of them, but the Will of the great Creator. Not but Attempts have been made by Men of ready Inventions; which may be seen in a Treatise of ours, lately published, called, Mechanical Essays, explicating the Animal Occomomy, &c. a Book of great Use to all young Practitioners. Printed for C. Hitch, at the Red-Lion in Paternoster-Row, London.

Q. How is the Body nourished?

A. By Blood; which Blood is thus made: The Food after being chew'd in the Mouth, and mixed with the Saliva or Spittle, passes through the Oesophagus or Gullet, into the Stomach; the inner Coats of both which, being full of small Glands, are continually supplying the Stomach with an Acid, which meeting with the pounded Food, makes a fort of ferment, and makes it become more liquid, and perfectly uniform; which being equally on all sides squeezed by the Stomach,

passes through the Pylorus into the Intestines; where (in the Jejunum and Duodenum) it mixes with the Bile and Panereatick Juice, by means of the Ductus Cholidochus and Ductus Pancreaticus, which open into them for the same purpose; these here meeting with the Aliment, perfect the Liquefaction, and then it makes its way thro' the other Intestines, where the groffer Part is evacuated by Stool, and the most refined Part, called Chyle, enters the Orifices of the first Venæ Lacteæ, which are more numerous in the fejunum, than in any other Inteftine, and spread themselves all over the Mesentery, in whose Basis there are Glands, in which these Veins terminate; and the Chyle is received by the second fort of the Venæ Lacteæ, and conveyed to the Receptaculum Chyli, from whence it rifes thro' the Ductus Thoracicus to the left Subclavian Vein, and fo glides on to the descending Branch of the Vena Cava; after that to the right Auricle, and then to the right Ventricle of the Heart. Then by its Systole or Contraction, it is forced thence into the Lungs, and then descends into the left Auricle of the Heart; whence it is expelled into the Aorta, or great Artery, and fo paffes along with the Blood, by the Arteries, through the whole Body, and returns again with it by the Veins to the Heart, and undergoes many Circulations before it is turned into Blood; but by the vital Spirits and other active Principles of the Blood, it receives some Alteration every time it circulates; till at length all its Mass (that is capable of being turned into Blood) is fanguified; and what is not, is discharged by Urine, Stool, Sweat, &c. The Blood being thus made, the Body is nourished by it; for there is that diversity of figure, both in the Particles of the Blood, and Pores of each Part, that in the Circulation every Particle sticks

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in its proper Pore, in order to pass into the Nourishment of that Part, which is of the same Nature with its self; (viz.) the Salt and sulphureous Particles equally mix'd, go to nourish the selfly or musculous Parts; the Oily and Sulphureous to the Fat; the Salt and Tartareous to the Bones, &c.

Q. How much Blood is supposed to be in the whole

Bady?

A. According to some Authors, fifteen or twenty, and to others, about twenty-four Pounds; which circulates fix or seven times in an Hour.

Q. Why is the Arterial Blood more florid than the

Venal?

A. That Colour is merely owing to the mixture of the Particles of the Air with the Blood in the Lungs; and even the Venal Blood a while exposed to the Air, acquires (contrary to its Nature) a florid Colour also, most commonly.

Q. What is Saliva or Spittle?

A. It is made of the Blood which passes thro' the Parotid Glands, placed behind the Ears, and the Maxillary Glands, seated under the lower Maxilla, between the Larynx and the Os Hyoides, and is pressed out thence into the Ductus Salivares, which open into the Mouth, under the Tip of the Tongue, upon the two sides of the Franum, by the lower Fore-Teeth. These Ductus's are four in number.

Q. How much Choler is supposed to be in the

Body ?

A. About two Pounds; but it is very uncertain.

Q. How does it cause the faundice?

A. Either when thro' the want of a convenient Ferment, it is not separated from the Blood; or when the Neck of the Vesica Fellis is stopped, that

none can pass out of it into the Intestines. But the Reader may find greater Satisfaction in my Mechanical Essays on the Animal Oeconomy.

Q. What is Hunger and Thirst?

A. Hunger is caused by an Acid, which continually trickles down the Cavity of the Stomach from its own Glands, and those of the Oesophagus, which when the Stomach it empty, it finds nothing to prey upon, therefore pricks upon the Membranes of the Stomach, and so causes a Defire of Food; and when there rises up some Vapour, which heats its superior Orifice, it inclines us to cool it with something; and this is what is called Thirst.

Q. How is Milk produced?

A. Milk confifts of a middle Nature between Blood and Chyle; being not so thick as the one, nor fo ferous as the other, and is thus made: When the Chyle has mixed with the Blood (as has been faid) and is got as far as the Aorta, that Part of it which is most ferous, is convey'd by the emulgent Artery, and strained into the Kidneys, by the papillary Bodies, to be fent from thence, by the Ureters to the Bladder, and so voided by Utine, whilst that Part that is most milky, is carried by the small Branches of the Mammaria, to all the Glands of the Breaft, into which the Secretion of it is made; where all its Particles being united, make up a Body of Milk, which is thrown by the Pipes of these Glands into the common Ciftern. where it remains till the Child (by the Tubuli which run from the Ciftern to the Nipple) draws it out. Vide Mechanical Effays, &c.

Q. What is Smelling, and how is it performed?

A. It is a passive Quality of the Olfactory Nerves, in receiving the Impression that Odorous Bodies make, by virtue of their Exhalations; thus,

viz. the little Atoms that exhale from Odoriferous Bodies, being carried by the Air to the Nofe, frike upon its inner Membrane, and shake the small Pipes of the Olfactory Nerves; upon which the subtle Matter with which they are filled, partaking of the same Motion, slies immediately to the Corpora Striata, where these Nerves take their rise, and where the Soul perceives that this is an Impression of an odoriferous Body. And this is what is called Smelling.

Q. What is the Difference between Conglobate

and Conglomerate Glands?

A. Conglobate Glands are they which are undivided, being of one Substance and Composition, appear firm, and have an even smooth Surface. Conglomerate Glands are composed of several little Bodies, joined under one Membrane, such as the Pancreas, Salival Glands, Lachrymal Glands, &c.

Q. What is the Os Hyoides?

A. It is feated at the Root of the Tongue, under the lower Jaw, and above the Larynx, and is shaped like the Greek Letter Υ , whence it is called Ypfiloides; by its Gibbous Side it is joined to the Basis of the Tongue, and into its Concave, it receives the Epiglottis.

Q. What is its Use?

A. It ferves for the Infertion of those Muscles that move the Tongue, and for keeping the Throat open till we swallow, and to keep open the Windpipe till we breathe and speak.

Q. What is the Os Pubis?

A. This is what is called the Share-Bone, and is the third of the Offa Innominata, of which it is the lower, and inner, or fore-part.

Q. What are the Offa Innominata?

A. The Os Ilium, Coxendix, and Pubis, joined to the Os Sacrum (through the Intervention of a Cartilage) by a strong Ligament, which together frame the Pelvis, or Cavity, which contains the Bladder, Matrix, and part of the Intestines.

Q. What is Hearing?

A. It is a Sense, whereby Sound is perceived from a trembling Motion of the external Air, beating upon the Tympanum, and so moving the internal Air with the Fibres of the Auditory Nerve, and communicated to the Brain.

Q. What is the Tympanum?

A. It is what is called the Drum of the Ear : and is a nervous, round, pellucid Membrane, of most exquisite Sense, separating the outward from the inward Ear; and springs (according to some) from the Pericranium; to others, from the Pia Mater; to others, from the Dura Mater; and to others, from the fofter Process of the Auditory Nerve expanded. When it is taken away, a Cavity appears on the infide of it; in which are contained four little Bones that are moveable. and very much conduce to Hearing; viz. (1.) Malleolus, or the little Hammer. (2.) Incus, the Anvil. (3.) Stapes, the Stirrup. And, (4.) Os Orbiculare, so called from its round Shape. If by any Accident, the Tympanum is lacerated, the Hearing of that Ear is irrecoverably loft; therefore let the young Surgeon be cautious bow, or with what, he fyringes an Ear; and be fure to use an Ear-Syringe, and not one with a long Pipe, nor do it too forcibly, left he come off with just Shame and Scandal, and do fuch Mischief as he can never make Satisfaction for. As to what he ought to syringe an Ear with, in Deafness, &c.

warm Water, in which is a Quantity of Canary, Aq. Hungar, or good Brandy, may ferve as well as any thing.

Q. What is Vision or Sight?

- A. It is that Sense whereby, from the different Motion of different Rays, gathered in the Chrystalline and Vitreous Humour, and striking upon the Tunica Retina, visible Objects are perceived.
- Q. How many Humours is the Eye composed of?

 A. Three, (viz.) Aqueous, Chrystallinous, and Vicreous.

Q. How are they situated?

A. The Aqueous is outermost, and fills up that Space which is between the Cornea and Chrystalline Humour before: If any thick Particles swim in it, then Flies, &c. seem to be slying before the Eyes; and if they yet grow thicker, so as to cause a Film, and this be spread before the Hole of the Pupilla, it makes that Disease called a Cataract. The Crystalline Humour is placed between the Aqueous and Vitreous, not exactly in the middle of the Eye, but inclining rather towards its forepart; it is more bright and solid than either of the other two. The Vitreous, so called from its likeness to melted Glass, is thicker than the Aqueous, and thinner than the Crystalline, and exceeds both in Quantity.

Q. How doth Blood pass out of the Arteries into

the Veins?

A. Either by Anastomosis, or Inosculation, (which is now, with Reason, not believed;) or else by the Capillary Arteries letting out their Blood into the Pores of the Substance of the Parts, on whose Nourishment part is spent, and the rest imbibed by the Mouths of the Capillary Veins; and

and this is now the common received Opi-

Q. Which is the Vena Saphæna?

A. When the Iliacal Branches of the Cava are descended as far as the Thigh, they are called Crurales; and when past the Groins, are divided into six more, the first of which is the Saphæna, and which descends down the inside the Thigh and Leg, between the Skin and Membrana Carnosa, and generally appears turgid, on the inside the Ankle, where it is opened with safety and success, in Diseases of the Matrix.

Q. What is an Hair?

A. It is a fmall Body, Thread-like, hard and flexible.

Q. Of what Figure are they?

A. Generally four-square, sometimes triangular, seldom round, but always porous lengthways.

Q. What are Nails on the Fingers and Toes?

A. They are a horny transparent Substance, coming nearest to Bones, and are given for Defence, but are without Sense; and both they, and the Hair, will grow after a Man is dead.

Q. Of what Weight and Bigness is the Brain of a

Man?

A. Some Men's weigh our or five Pounds, and are by fome affirm'd to be as big again as that of an Ox.

Q. And what is your Design in publishing this Book

the fifth Time ?

A. The very same as it it was the first, second, third, and sourth; (which have given such Satisfaction to the World, that they are all sold off;) and that was, To serve my Generation; and to deliver

A Compendium of Anatomy.

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deliver that in a few Words, and pleasant Method, that others have made mysterious Volumes of, to torture the young Reader's Pocket, and Memory to little Purpose.

Candidus imperti; si non, his utere mecum. Horat.





AN

APPENDIX:

CONTAINING

A Rational (tho' short) Account of the VENEREAL DISEASE in every Stage of it.

With the True Method of Cure, and Management of a Patient under it.

Q. If E Venereal Disease being so common, and there being such a multitude of Pretenders to its Cure, and so many miscarrying under their Hanbs, I beg you will favour me with your Thoughts about it.

A. With all my heart; ask what Questions you

please, only use Brevity.

Q. Whence had it its Original?

A. Some fay from France, and from thence call it Morbus Gallicus; others from Naples: but it is of no great moment to know from whence it came, it is sufficient for us that we know it is now in our own Country; nor will we contend about Words, and wrangle, whether the first Stage of it, attended with a Gleet, should be called Gonor-thea, or Stillicidium, or whether a Discharge at

the Salival Glands, by the use of Mercury, be most proper to be called a Salivation, or a Ptyalism; but discourse only of what is more material.

Q. How many ways may a Person be infected with

the Grand Pox.

A. (1.) By impure Embraces, (2.) by a lascivious Contact of the Genitals, (3.) from pocky Parents, (4.) by sucking an infected Nurse, (5.) by sucking an infected Infant, and (6.) it is not adviseable to lie in Bed with a pocky Person, especially for young and tender Bodies; but as to sitting on the same Seat, putting on the same Glove, or wiping on the same Towel, there is no danger in any of them, and they are only sham Pretences for some wicked Persons to impose on their credulous Relations by.

Q. What is the Nature of its Poison, and how is

it to be accounted for ?

A. It would take up too much room to give you the Opinions of all that have wrote about it, and who, as they all differ one from another, cannot be all in the right, but may possibly be all in the wrong; and it being only a matter of Speculation, I shall not spend time here about it, but refer you to my Mechanical Essays on the Animal Occonomy, a Book worth your buying.

Q. How do you distinguish, of this Disease?

A. The first Infection is commonly called a Gonorrhæa or simple running at the Penis, and the second Infection is by way of Eminence named the POX; either proceeding at once from the impure Embraces of a pocky Person, or from a Gonorrhæa ill cured.

Q. What is a CORDEE?

A. It is a Constriction of the Franum, whereby the Penis is pulled down (in the nature of a Curve) when it is erected, causing exceeding Pain; and it commonly

commonly happens when the Patient awakes out of his Sleep.

Q. How is it to be cured?

A. Some advise to dip the Penis in cold Milk, or Water; whilst others say that such a Method is apt to shut the Pores, and pen up the Poison, and rather advise to dip Cloths in Oxycrate, and wrap them about the Scrotum: but the most effectual way is to give brisk Purges with Mercurials, and now and then a Dose of Turbith Mineral to make Revulsion, and at proper times, Emulsions cum Sale Prunel. Camphor. &c.

Q. What is a Phimosis, and Paraphimosis?

A. The one is a Constriction of the Prepuce over the end of the Glans, so that it cannot be drawn back; and the other is a painful Restricture of it when it is drawn back behind the Neck of the Glans, so that it cannot be again brought over its end, to cover it.

Q. How must I remedy this Mischief?

A. Foment it with a Decoction ex Fol. Malv. Verbasc. Summit. Centaur. Hyperic. Sem. Lini, Flor. Cham. Flor. Melilot. Sambuc. &c. and if need be, thicken up some of the Ingredients with Farin. Fabar. into a Cataplasm, and apply it warm, and purge with Pil. ex Duobus and Calomel. and between whiles make Revulsion with Turbith Mineral, &c..

Q. What must be done in a Dyfuria, or Heat, Pain,

and Difficulty of Urine?

A. On the Days the Patient does not purge, give him plentifully of Emulsions, ex quatuor Sem. Frigid. maj. cum Sem. Papaver. Syr. Altheæ, &c. and with a Draught of it at Night (on the purging Days) Syr. è Meconio 3j. or 3vj. and instead of making the Emulsion of Aq. Font. make it of Aq. Hordei, in sojj. of which dissolve 3vj. of Gum Arabic. And if this does not do, mix with each Dose

Dose, Salis Prunel. 3ss. and in some stubborn Cases, or in a Cordee, or Priapism, add Sacc. Saturni, or Camphor. gr. v. or vi. or if the Emulsion cannot be had, a strong Decoct. Malvar. will infallibly do it in three or sour Days, drinking of it at least two or soil. a Day, as I know by forty Years happy Experience.

Q. What is a Caruncle?

A. It is a little Excrescence of Flesh, growing in the Urethra, caused by the corroding Gleet, passing thro' it, and lodging there. In a Clap of long standing, or in one that is a consequent of several, one upon another, or from one ill cured. The Patient that has them, commonly pisseth in divers Streams, and sometimes only by Drops, as in a Strangury, and with prodigious Pain; and if the Ductus is wholly stopt thereby, there must be speedy Relief, or Death is the Consequence, and that very quickly.

Q. What must be done in this deplorable Case?

A. By a Catheter Probe, or rather by a Wax Candle, made fmall on purpose, and dipt in Oil, and passed gently into the *Urethra*, you may discover its Situation; but unless Life is in danger, you must not be too rough with it to force it thro' the Caruncle, but rather use a medicated Candle, to eat it off.

O. How is that to be done ?

A. Having a Piece of a very small Wax Candle, of a fit length, scrape off the Wax at one end, and dip the same in a fit Mixture, to supply the place of the Wax scraped off. The Composition is to be either only very drying, or Catheretick; as Pulv. Sabin. Alum. ust. Pracipit. Rub. Lap. Calaminar. Vitrial. Calcinat. Mers. Sublimat. &c. mixt with a due proportion of Empl. Diacalcit. de Cerus. or è Mucilagin. which may be found in Authors,

thors, differently proportioned: but for a Specimen. take only this; K. Merc. Præcip. rub. 3ij Lap. Gilaminar. 3ij. Vitriol. Calcinat. 3j. Empl. Diacalcit. 3ifs. ad ignem liquefact. & fiat Cand. S. A.

Pass the medicated End of the Candle, so far into the Urethra, as to press gently upon the Caruncle; and being fixed close there, turn the other End back, over the End of the Prepuce and Glans, and secure it there from slipping: and let the Patient drink as little as possible, to avoid making Water; for when he does, he must take out the Candle, and when he has done, put in another himself. Upon drawing forth the Candle, he may inject warm, a little Aq. Hord. or Mucilag. è Sem. Cydonior. to assuage the Heat and Pain. And let him sollow this Method, until the Sloughs separate and come away; and then to heal it, inject Aq. Calcis, or Deccet. Cort. Granat. Balaust. &c. cum Syr. Ros. Sicc. warm.

Q. What are Chankres, or (as they are commonly

called) Shankers?

A. The are Venereal Ulcers (most commonly) on the Prepuce, and Glans.

Q. How are they to be cured?

A. As to Externals, (if they are of a mild kind) Pracipit. Rub. strowed on them, a Digestive over that, and kept conveniently on, often do the Bufiness; as does sometimes Argent. Viv. kill'd (as it is called) with Tereb. Vin. and apply'd on Pledgets; but if these fail, the Chankres may be touched with Lac Sublimat. and sometimes a light Touch of the Lunar Caustick; but if nothing will do, sume them with Cinab. factit. 3j. on an Iron Pad, three parts red-hot, twice a day, and purge well with Pil. ex Duob. gr. xxv. & Calomel. gr. xii. and for two or three times, (to cause Revulfion) and at two or three Days distance, Exhibit:

Turp. miner. gr. vii. or viii. in Conf. Rof. rub. and then purge again, as before, until the Malignity is subdued: But if there is only a simple Excoration, Unguent. Tutio, or Cerat. ex Lap. Calaminar. will sometimes heal it.

Q. Howis a Bubo to be managed?

A. If there is only an Induration of the Glands, and the Infection recent, give mercurial Catharticks; but if it is large and painful, forbear purging, and hasten Suppuration, with Empl. Diach. cum Gum. or a Cataplasm ex Rad. Lilior. alb. Althea, Allii, Bryon. Fim. Columbi, Pic. pinguid, &c. And when Matter suctuates, open it by Caustick, separate the Eschar, and apply Digestives, and then purge with Mercurials; and if it yet proves vexatious, give a Dose or two of Turb. miner. at due Intervals; and if still it will not yield, do not trise, but proceed to Salivation.

Q. How is a Hernia Humoralis, or hard Venereal

Tumor of the Scrotum to be cured?

A. Having prepared a fitting Bag-Truss, to support its weight, and big enough also to contain a Cataplasm, make one ex Farin. Fabar. Flor. Sambuc. Chamæmel. Meliloti, in Aq. Font. or Oxymel. simpl. to which add Unguent. Sambuc. Avoid all restringent Applications, and purge with Pil. ex Duobus and Calomel. But if notwithstanding it increaseth, and threatens an Abscess, have recourse to a sew Doses of Turbith, at fit distances, to make Revulsion, and then purge as before; and if any hardness remain afterwards, apply Empl. è Cicut: cum Ammoniaco, vel Diasulphuris, de ranis cum Merc. &c.

Q. How is a Simple Gleet, with, or without, the

foregoing Symptoms, to be carried off?

A. Not always by the very same Method, but as Symptoms, Constitution, Season, &c. indicate.
Q. Does

Q. Does not strong and frequent Purging often cure

it, without any thing elfe?

A. I believe never, without Balfamicks; and altho' different Habits and different Degrees of Infection, may require different Catharticks, yet those of the violent fort, if too long used, and in weak Constitutions, are often so far from curing, that they will cause a return of Symptoms (if before abated) and tear the Constitution to pieces; especially, where there is a bilious Blood, and where Colocynth, and Scamony, have been the Purges.

Q. How then must I proceed?

A. In hot, dry, bilious, hectical Habits, cooling gentle Catharticks, such as Elect. Lenitiv. Crem. Tart. pulv. Rhabarb. falapii, &c. and Decoctions ex Fol. Senæ, Tamarind. Sal. Tart. &c. are best; but in cold slegmatick Habits, that common Purge, of Pil. ex Duobus with Calomel, is as good as any; notwithstanding the great Pretences some make to Nostrums, in curing this Disease; and all such Pretences are no better than Quackery, and hardly any regular Surgeon attempts it now-a-days, but vary their Medicines according to Circumstances.

Q. However, for the fake of young Beginners, I pray you to give some Formulæ?

A. To fatisfy fuch, I will; and first, for

A PILL.

R. Pulv. Aloes, Jalapii, ana zij. Diagrid. Colocynth. Crem. Tart. ana zss. Tart. Vitriolat. gr. xij. Merc. dulcis ziss. cum Syr. è Spin. Cerv. & Balf. Capivi, q. s. fiat massa, Dos. zss.

An ELECTUARY.

R. Elect. Lenitiv. 3iij. Balf. Capivi, 3ss. Calomel. Diagrid. Resin. Jalapii, ana 3ij. Crem. Tart. Salis Salis Prunel. Milleped. prap. Antimon. Diapheret. ana 3s. Syr. Althew, q. f. ut fiat Elect. Dof. quant. Jugland. omni mane.

Another.

R Elect. Lenitiv. & Conf. Lujulæ, ana zifs. Pulv. Rhabarb. zij. Salis Prunel. ziij. Calomel. zifs. Pulv. Agaric. Ant. Diaphoret. ana zij. Refin. Jalapii zj. Balf. Capivi, q. f. ut fiat. Elect. Dof. quant. N. M. omni mane & nocte.

Q. Are not Injections sometimes used with Success?

A. Yes, to abate the Pain and Heat in the Urethra, and to heal Excoriations there; they are
generally made ex Aq. Plantag. Troch. alb. Rhas.
and (when Ulcers are in the Urethra) sometimes
we add Mel. Rosar. Mel. Egyptiac. or a few Grains
of Sacc. Saturni, well mixed and used warm, always injecting it after making Water.

Q. Is not a yellow Gleet commonly accounted ill?

A. Generally it is; yet fometimes in an ill Ha-

bit, or bilious State, it may not.

Q. When the Malignity is carried off, and the

Symptoms abated, how shall I finish the Cure?

A. Not with Restringents; but when the Gleet is but little, white, tenacious, &c. mix Cons. Luju-læ, vel Cynosbat. & Bals. Capivi, ana zij. Pulv. Rhabarb. zij. Pulv. Jalap. zi. & capiat quant. N. M. mane & hora Somni. This, and a regular Regimen, commonly concludes the Cure. But sometimes I also give the Potio Alba Batean. sometimes made with Tereb. Ven. and sometimes with Bals. Capivi. But during the whole Cure, the Patient must abstain from all strong Liquors, and from all salt, sour, and spicy Food, and from Venery.

Q. But suppose, that with all the Care and Caution that can be used, Symptoms do not abate; or if

abated, they return, what must be done?

A. Give

A. Give an Emetick, ex Turb. miner. gr. vii or wiii. and repeat it, at two or three Days distance, for two or three Doses, and then purge; and so do by turns, until Symptoms go off.

Q. I am told that some give Tinct. Cantharidum?

A. It is too dangerous for young Beginners to meddle with, and I advise you to let it alone.

Q. Is there any thing that will prevent an Infection, if an infected Person is carnally conversed with?

A. It is Pity there should be any such thing, and I believe there is not; and if I knew such a Secret, I would not discover it: the surest Way is to live honestly.

Q. Is not the Venereal Difease (either the first or second Infection) to be cured without Mercury?

A. I will not fay, that the thing is impossible, but I should be loth to put it to the Venture; and if any are cured without it, it must be the first Stage, and that too of a mild Nature.

Q. Sometimes the Mercury runs thro' the Patient downwards, can it profit him in such a Case?

A. Dr. Quincy fays, that it may be fo fixed by giving Camphor with it, that it shall have no fensible Operation at all, only act as an Alterative; which I have, in some measure, experienced to be Fact; and the Reason why we commonly give Calomel over Night, and purge it off in the Morning, is not only to prevent its fallvating, but, also, to fuse the Blood, break its Globules, diffolve the pocky Salts, open the obstructed Tubes, and so to prepare Matters, to be carried off by Catharticks; without which, Catharticks feldom do much good. And let me advise you not to undertake to cure any fuch Patient by the Lump; or, no Cure no Money: for these fort of Sinners are apt at all times (much more when fo fecured) to get Clap upon Clap, to whore on, and not own it, to the tiring out your Patience, as well as to your great Vexation, and fruitless Expence of Pocket, and too often of Reputation too.

Q. Pray what are the Diagnostick Signs of a

Pox, or second Infection, as it is called?

A. Seldom any Man has all of them, but every pocky Patient has some of them, viz. Serpiginous Eruptions, Inguinal Tumors, and Abscesses, Ophthalmia's, Ozæna's, Ulcers of the Uvula and Tonsils, Notturnal Pains on the Shoulders and Shins, Hemicrania's, Cephalæa's, Gummata, Tophs, Nodes, Exostos of the Bones, Scabs with crusty tawny Tops, especially on the Head and Forehead; and the back part of the Fauces are ulcerated; cum multis aliis.

Q. What are the Prognostick Signs?

A. If the Infection is recent, if the Patient is notScorbutick, Rheumatick, Arthritick, Cacochymick, or has not got Pox upon Pox, but is of a found Habit, and will be govern'd and fubmit to Rules, we may hope for Success; but if the venereal Taint has an uncommon Virulency, is of an old Date, or that the Patient is a Veterane in Iniquity, has been accustomed to Mercury, is of an ill Habit, will whore on, live irregularly, and neglect Rules; be sparing of your Promises, and not fond of meddling with him at all.

Q. Do you think it impossible to raise a Salivation

without Mercury?

A. It is more than probable, that it is impossible; but supposing it was possible, yet unless such a Medicine, as would as copiously raise a Salivation as Mercury, was as peculiarly adapted to encounter the venereal Virus, as that is, the glandular Secretion would signify little.

Q. Why are drying Diet-Drinks made of the

Woods given?

A. After Salivation, they give a fort of Elasticity to the Blood, dry up Superfluities, warm, open obstructed Vessels, and restore the Tone of the over-relaxed Fibres, &c.

Q. Which of the Woods are most in Use?

A. The most in Use, are Guaiacum, Sarsaparilla, Sassafras, China, Lign. Juniperi, Buxi, Ebon. Abietis, Santal. omn. with Rad. Bardan. Petasit. Fol. Persicar. Saponar. &c.

Q. Which is accounted the best way to raise a Sa-

livation?

A. If the Disease is not too deeply radicated, the best way (because the safest) is to raise it by Calomel, otherwise the way by Unction is more eligible.

Q. Some use Arcan. Corallin. Merc. Vitæ, green, red, and yellow Precipitate, Panacea Mercur. &c.

your Opinion of them?

A. Let it be a standing Rule with you, ever to prefer the safest Medicines and Methods, and not to try Experiments, to the hazard of your Patient, in hopes to find a shorter Cut to the Cure.

Q. Suppose I was to raise a Salivation by Calo-

mel, how ought I to proceed?

A. In every Method take time, do it leisurely, and by small Doses, rather than large, lest you raise a Devil that you cannot conjure down again; therefore (if by Calomel) give gr. xv. or xvj. in a Morning, and as much at Night, in Conf. Ros. Rub. vel Diascord. every Day; and in three or four Days, you will commonly see the Signs of a coming Salivation, viz. the insides of the Cheeks tumified, the Fauces inslamed, the Tongue white and foul, the Gums swelled, the Breath stinking; the Patient is at times sick at Stomach, and ejects a thin Phlegm, which (if moderate) is a good Sign; but if violent and continual, is bad, &c. When the inside of the Mouth is whealed, you may certainly

tainly infer, that Ulcers are at hand: and now you may defift a Day, or more, to wait the Progress of the Salivation; which if it rises kindly, desist; if not, give another Dose or two of the Calomel, and if need be, increase it.

Q. Suppose that in several Days taking the Calomel, the Spitting does not come on kindly, nor other

Symptoms appear, what must be done?

A. In some Constitutions, with these small Doses, the Case will sometimes so happen; in that
case, after the Patient has taken two or ziij. of
the Calemel, (if you find he has Strength to bear
it) exhibit gr. vij. of Turpeth. Mineral, drinking warm Posset-Drink, or Gruel, between the
Retchings, but not too much, lest it turn downwards; and if one such Dose will not do, give
another at due Distance, until you gain your
Point.

Q. But does it not sometimes happen, that, contrary to all Expectation and Endeavours, the Salivation will not come on? What must be done in that Case?

A. In some Constitutions there is such a Disagreement between the Particles of the Mercury, and the Lympha, (whether from its Tenacity, or fome Defect in the Salival Glands) it does fometimes happen as you object. In that case, do not hazard your Patient's Welfare, but forbear giving any more Mercury, and purge off what is already given, and have Recourse to your Diet-Drinks, alterative Electuaries, or Pills ex Ceruf. Antimonii, Gum. Guaiaci, &c. fometimes sweating with Antimon. Diaphoret. Bez. Min. Cinnab. Antimon. &c. drinking warm Draughts of Diet-Drink in Bed : Thus by contemperating the contaminated Juices, perspiring the noxious Particles, and drying up the Superfluous Serum; the Cure (altho' longer) may often be effected without Spitting.

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Q. If the Salivation comes on kindly, how long is it to be continu'd?

A. If it be moderate, it is best to suffer it to work itself off; which sometimes it will do in one and twenty Days, sometimes in thirty, from its first beginning.

Q. How much is called a Sufficient Quantity, to

Spit in four and twenty Hours?

A. That is ever to be regulated by Age, Strength, and Degree of Infection, viz. a Pint and half, a Quart, or three Pints, to four Pints, and sometimes more; but if it continues too long, purge it off, lest the Patient sinks under it.

Q. How does the Mercury operate, to cause a Sa-

livation?

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A. By fuling the Blood, thinning its tenacious Particles, opening the obstructed Tubes, and disfolving the Venereal Salts, and so fitting them for Discharge by the Salival Glands, and afterwards by Catharticks.

Q. How must the Body be prepared for a Saliva-

tion ?

A. If the Patient be of a fanguine Habit, take away a little Blood; let him fubmit to fome Abfinence, and purge gently once or twice, to prevent a Diarrhoea and Inflammation of the Parts; and in lean thin Habits they may first bathe in warm Water; and the latter End of the Spring, or Beginning of Autumn, are the most proper Seasons for it.

Q. How ought a Salivation by Unction to be

raised?

A. It is ever good to be on the safe Side, and not to raise it too hastily: My Method is, to mix 3j. of the Mercury with 3iij. of the Axungia (after being well kill'd, as it is call'd, with Tereb. Ven.) and rub in an eighth part Night and Morning;

and either let the Patient do it himself, or cover your own Hands with a Bladder, and do it for him before a Fire, he being secured from the Cold with a Blanket; rubbing it in from his Ankles up his Legs, all along to the upper Part of his Thighs, which cover with Yarn Stockings, and Flannel Trouzers, and rub in the remainder of the said eighth Part (each time) on his Arms, and about his Elbows.

Q. I am informed, that some Surgeons use 3vj. of the Mercury to this. or 3xx. of the Axungia, and

rub in 31. or 311. twice a Day.

A. If you err, let it be on the right fide; but if your Unguent is fo strong of the Mercury, and that you anoint twice a Day, if after four times anointing, the Patient's Mouth begins to ulcerate, defift a Day or more; as you must also, if bloody Stools, or Gripes come on; but if nothing of these appear, proceed another Day or two, and then intermit a Day, and so go on with Caution, until the Spitting comes on, and then forbear. But if after rubbing in 3iss. or 3ij. of the Mercury, the Salivation does not rife, give a Dose of seven Grains of Turbith; but if a due Quantity of the Mercury has been first rubbed in, wait a Day or two: when after fuch waiting, it will fometimes come on unexpectedly, without taking any thing; and it is better to be too flow, than too rash or hafty, especially in falivating by Unction; and if there are Tophs or Nodes, be fure to rub the Mercury well in there.

Q. How is the Patient to be managed, during his

Salivation?

A. Be fure always to encourage him to go on chearfully, give him fometimes a little red Wins mull'd with a third of Water; let his Diet be Panada, Mace-Ale, Water-Gruel, small Chicken-Broth,

Broth, Milk-Pottage, small Sack-Whey, Posset-Drink, and sometimes small Beer with a Toast; but if Gripes or Looseness attend, let his Drink be only the Decoctum Album, made ex C. C. & ...

Q. How is he to be cloathed, or secured from

Cold, in the Salivation?

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A. He should have woollen Stockings, Flannel Trouzers, Shirt, Cap, and Mussler; which should be changed for others, when you want to purge off the Psyalism.

Q. With what is that most proper to be done?

A. Practitioners differ in this Point; but as good as any are the Infus. Senæ, cum Syr. è Spin. Cerv. Manna, Syr. Ros. solutiv. &c.

Q. How is the Patient at such time to be dieted?

A. You may permit him to eat moderately of Chicken, Veal, Rabbit, or Mutton well roafted, without Sauce, or Gravy.

Q. Must not the Patient then be sweated?

A. Yes, either in Bed, with Ther. Ven. 3j. Cinnabar. Antimon. Dj. Bez. Miner. gr. x. drinking after it a Draught of warm Diet-Drink; or else (fitting on a Stool naked, encompassed with a Folding-Cradle, covered with a Blanket, and only his Head out, and that well covered) with Spir. Vini rest. burning on each side of him; doing so every Day for an Hour or two, if Strength will permit, giving him warm Napkins to rub himself with during his Sweating, and mull'd Wine to support his Spirits; and do thus for three Weeks or more, putting him every time (after it) into Bed, between Blankets, to sweat there also.

Q. To what End or Purpose will you do this?

A. That the remaining morbifick Scrosities may be dried up before the Blood is filled with

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new nutritious Juices; therefore, during this Course, it will be proper to keep to a spare Diet; and for Supper, particularly, to eat only a Biscuit, and a few Raisins of the Sun, or such like.

Q. Suppose that, in the Time of his Salivation, a Diarrhoea, Dysentery, or cruel Gripings attend?

A. Every two or three Hours give a few Spoonfuls of some refreshing Cordial, made of Aq. Cinam. fort. & tenuis, Aq. Mirab. Menthæ comp. Syr. Cydonior. Diacod. &c. first giving a Morsel of an Electuary, made of Cons. Ros. rub. Diascord. Pulv. Coral. rub. Ter. Japon. &c. made up with Syr. & Mecon. and let his Drink be the Decott. Alb. and exhibit Glisters of the same, ad this. cum Elect. Diascord. Ther. Ven. Vin. Canar. Vitel. Ovi, &c. according to your Discretion; and give some of his Cordial after every Stool, and at proper Intervals, a Draught of mull'd Wine; to which sometimes add a few Drops of Laud. Liquid. Cydoniat. but be as sparing of that as you can, because it checks the glandular Secretion.

Q. What is the Confequence of a Diarrhoea in this

Cafe?

A. The Humours thereby are carried downwards, and the falivating hinder'd.

Q. Suppose Sickness and Vomiting attend?

A. If it be but gentle, let the Patient drink plentifully of Chicken-Broth, or Poffet-Drink, and give now and then mull'd Wine, in which is boiled Fol. Menthæ, Cort. Lymon. Caryoph. contust. &c. But if the Vomiting and Pains are violent, attended with Fainting, cold Sweats, &c. the Danger is great. Now if he is costive, give a Glister cum Sacc. rub. Ol. Olivar. Sal. Gem. &c. and give good Cordials, and Sack mull'd with Spices, and especially when his Glister comes away; also wring

wring Flannel Cloths out of red Wine, boil'd with Aromaticks, and apply'd warm, Scorbiculo Cordis, and then anoint with Ol. N. M. per Express. cum Ol. Absinthii, and renew the Flannels as they dry; but these Accidents are generally owing to the too hasty raising the Salivation, by giving too large Doses of the Mercury; therefore be careful to guard against such Practice.

Q. What must be done to help their fore Chaps?

A. Let him often hold in his Mouth warm Aq.

Hordei, Milk, or Chicken-Broth; but use no Astringent, or digestive Gargarisms.

Q. Why fo?

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A. Because the one dries the Ulcer too much, and so stops the Spitting; and the other brings off the Sloughs, and heals the Ulcers too soon. But if the Acrid Salts have eaten deep into the Parts, and so endanger loss of Substance, or a soul Bone, then promote the Digestion of the Ulcers, and

destroy the rotten Flesh.

Do the first with Decost. Hordei, cum Fol. Plantag. Equiseti, &c. cum pauculo Tinet. Myrrhæ, & Mel Rosar. and do the second, by touching the Parts often with an armed Probe, with this, viz. Mel Rosar. Zj. Spir. Vitr. gutt. xx. Ms. or with Mel. Rosar. Tinet. Myrrhæ, & Mel. Ægyptiac. and keep the Jaws asunder, by Rolls of soft Rags put between the backward Teeth, or else sometimes you will meet with great Vexation, to keep open the Jaws.

Q. Suppose the Patient is over costive?

A. This feldom occurs, fo as to hinder the Progress of the Salivation; but when it does, exhibit a Glister, ex Laste, & Sacc. Rub. & Ol. Olivar. and allow him greater Quantities of diluting Liquors.

K 4

Q. Suppose a Tenesmus?

A. Inject a Glister ex Decost. Alb. & Elect. Fracastor. & Ther. Ven. ana ziij. Vitel. Ovi, No 1. Vin. Canar. Ziij. and repeat it as Occasion requires.

Q. What is the Consequence of a too hasty rising,

or a too long Continuance of a Salivation?

A. By the first, the Patient may be suffocated; and by the last, render'd consumptive.

Q. How must I prevent Suffocation?

A. By Derivation and Revulsion: give sharp Glisters with Hiera Picra, Sal. Gem. Colocynth. &c. and give some Cathartick, if the Patient can swallow; also cup, and scarrify on the Shoulders, and blister behind the Neck, behind the Ears, and down each side the Neck; and syringe the Throat with the Decost. pro Syr. Altheæ, cum Syr. è quinque Radic. vel Limon. or the Decost. Pest. acidulated with Spir. Sulph. And if his Lungs are stuff'd, add to the Decost. Pest. Oxymel. Scillit. in due Proportions, at proper Intervals.

Q. How must a Consumption be prevented, when

threatned by too long Spitting?

A. By gentle Catharticks, and Diureticks, with Sal. Tart. and to restrain any farther Colliquation, give Flor. Sulphuris ad 3ss. vel Dij. or Lac Sulphuris, to Dj. in some proper Conserve, two or three times a Day, and Morning and Evening some restringent Electuary, or a small Aq. Calcis, and change his Sheets and Flannels, for others well dried. And if the Salivation is over, and the Patient hectical, put him into a Course of Asses Milk, and the Testacea.

Q. Suppose there is an Ozana, or Ulcer in the

Noftrils ?

A: That Ulcer, and those of the Mouth, Tonfils, Uvula, (and Shankers on the Penis too) are best check'd by a Fumigation, after this manner, viz. Gather the top of a Blanket all together, and tie it with a String, the other end of which String fasten to the Ceiling; (if for an Ozæna, Ulcers in the Mouth, &c.) then place the Patient upon a Chair, under the Blanket, fo as it may inclose him; then set an earthen Dish or Pan on his Knees, in which put a Brick, and upon that an Iron Heater, made near redhot, on which put Cinnabar. factit. 3ss. Dij. or 3j. in fine Powder; then bring the Blanket close round the Patient, and hold his Nose (or Mouth open) over the Fume, now and then giving him Air, and stirring the Cinnabar with the end of a Tobacco Pipe, to make it smoke afresh; and after fix or eight Minutes release him: and do thus once a Day at least (if not twice) for a Week or ten Days.

Q. But suppose that the Ulcers are very foul, or

that the Parts are in Danger of being loft?

A. Then, at convenient Distances of Time, dip an armed Probe in, and touch them, with this, viz. R. Mel. Rosar. 3j. Tinet. Myrrh. Mel. Egyptiac. ana 3j. Ms. or carefully touch the Parts with Lac. Sublimat. and proceed to Salivation by Unction, if the Case requires it.

Q. But will not Fumigation sometimes salivate?

A. In some Constitutions it will; but you may carry it off by Purging, and sorbearing to sumigate.

Q. Suppose there are Serpiginous, or other cuta-

neous Eruptions?

at

A. Touch them carefully with Lac. Sublimat. or Pracip. Alb. mixed with Unguent. Alb.

K 5 Q. Sup-

Q. Suppose Gummata, Tophs, or Nodes?

A. Apply such a Plaister as this, viz. R. Cinnab. Fact. 3ss. ad 3j. Ceræ slav. 3iiij. Ol. Rofar. 3j. Colliq. ut bene misceantur, & siat Empl.
and proceed to Salivation, without attempting to
open the Toph or Induration; which (if the Bone
is not foul) will, in the Course of the Salivation,
disappear. However, some great Surgeons may
practise the contrary; but for what Ends, is but
too evident.

And lastly, take care, in the Course of Salivating, that your Patient does not swallow the Saliva, or Lympha, thereby swallowing his own Poison; therefore, before he eats or drinks (during his Salivation) every time let him wash, or

gargle his Mouth well.

Q. I had forgot one Case, that may happen, and should have been named before, viz. Suppose a Patient has a Phimosis and many Shankers, or large Warts, sprouting out of the Glans and its Neck, which can no way be come at, by reason of the close Construction

of the Præpuce over the Ends of the Glans?

A. That is really an ugly Case; and I know that Surgeons generally divide the Prepuce with their Probe-Scissars, to come at these Warts, Shankers, &c. But I do not like that Method; for they often adhere both to the Prepuce and Glans, and then such Division is fruitless: and before you can destroy these Appearances, the Wound in the Prepuce will heal, and that Part be exceedingly deformed, and troublesome ever after.

O. What other Method can be taken?

A. The Way I take, (tho' I have no Precedent for it) and which I am fure, by happy Experience, is the best, is this: Put up with the End of your Probe, Lint all round, between the Prepuce and Glans,

Glans, (to prevent the Glans being hurt by the Caustick) then apply a mild Caustick, made of Calc. Viv. & Lixiv. Capital. (as is directed in this Book) all round the Prepuce, secured handsomely on, which in an Hour, or little more, will make its way thro' the Prepuce, which you may then divide, without any Pain, and it will drop off from the Glans, and leave it quite bare; so that you may see what you do, in extirpating those Verruca, by Instrument, or Lunar Caustick, as you see most proper: Circumcistan being more defirable, than a deformed and troublesome Prepuce, and ten times more convenient for the Cure of your Patient.

Q. I forgot, until now, to name it, (but it is a necessary Enquiry;) sometimes during a Salivation, a Hemorrhage of the Mouth happens; pray how must

it be restrained?

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A. If it be from a Tooth lately drawn, a small actual Cautery apply'd, is the most secure Way: If it proceeds from the Separation of the Sloughs, (and not too violent) Oxycrate held in the Mouth may be sufficient; or if not, a thick Dorsel, or small Button of Lint apply'd, being first cover'd with powder'd Vitriol, or (sometimes) Allom, to the bleeding Part, and held firmly on; and sometimes a restringent Gargarism, acidulated with Spir. Vitr. &c. may be sufficient.

Q. Suppose Infants, or Women with Child in-

feeted; how must we proceed with them?

A. These require great Care and Caution; and altho' pregnant Women have undergone a Salivation, without any Harm, and Authors tell us of Insants safely salivated; yet I think (until the Woman is deliver'd) a palliative Cure is safest. And as to Insants, Salivation is a dangerous Experiment; but rather, let all their Food and Drink

be medicated with Sarfa and China, and (according to Age) give them Calomel over Night, and purge it off in the Morning with Syr. Rhabarb. vel Rofar. Sol. every three or four Days, and sometimes Æthiops Min. given Night and Morning. And these Hints, to a Mind and Understanding not stupid, but capable of Improvement, are sufficient; and to those that are not, as much more Instruction would signify little.

Q. You mention very often the Use of Lac Subli-

mati; I desire to know its Preparation?

A. It is easily made: Take only Merc. Sublimat. 3iij. in Powder, put it into a Pewter Bason, and put to it Aq. Font. 3vj. and stir it about until it becomes white, then put it into a Phial for Use.

Q. I have been affured, that some have been cured of a simple Clap, by only taking a few Drops of a certain Liquor daily for a Week or ten Days: Is such a Thing possible? or if it is, pray what is the Secret?

A. I believe it has by Chance been done, in fome ftrong Conflitutions; but it is a dangerous Experiment, being apt to cause great Sickness at Stomach; sometimes it vomits violently, sometimes it works the other way, and sometimes both ways, and often salivates, if not timely purged off;

the Preparation is this:

R. Merc. Sublimat. 3j. S. V. rect. 3j. fiat Solutio, Dos. gutt. x. xij. vel. xv. in Posset-Drink, or Water-Gruel, every Morning, increasing the Dose in strong Bodies, ad gutt. xx. and some give it twice a Day; but I advise you not to meddle with it at any rate. But you will hardly fail of a Cure, in any Case, if you follow the safe Directions I have before laid down, without trying dangerous Experiments, to make short Cures, especially where the Patient has the Phial to take the Drops himself; who being in haste to be well, and

not knowing the danger of an Over-Dose, may take so many Drops as may ruin him; and you may depend upon't, that he will not own it, but it is you that must bear all the Blame, and Shame too, if he miscarries. Therefore do not meddle with it, but be always careful to do that, which is both safe and honourable. Great Cures have been pretended to be done, only by giving Mercury precipitatus per se, to gr. j. iss. or gr. ij. in a Pill at Night for some Days at due Intervals, but I can say nothing to it from Experience, and am no Friend to dangerous Experiments, and have no great Faith in this Thing in particular; but as I never try'd it, so I shall say no more about it.

FINIS.



THE

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